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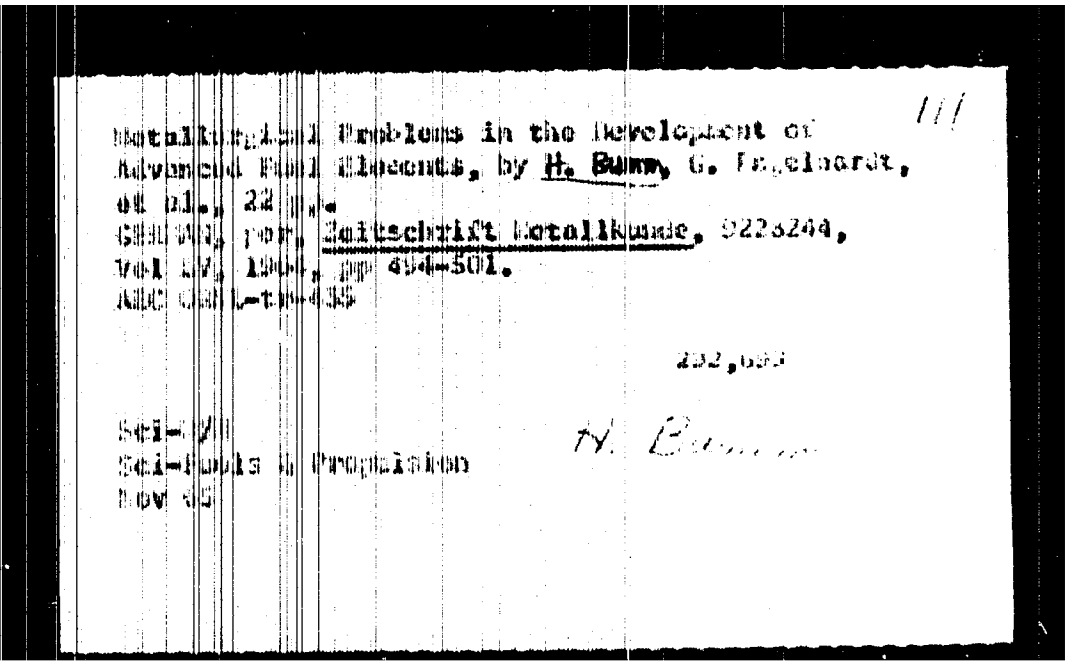

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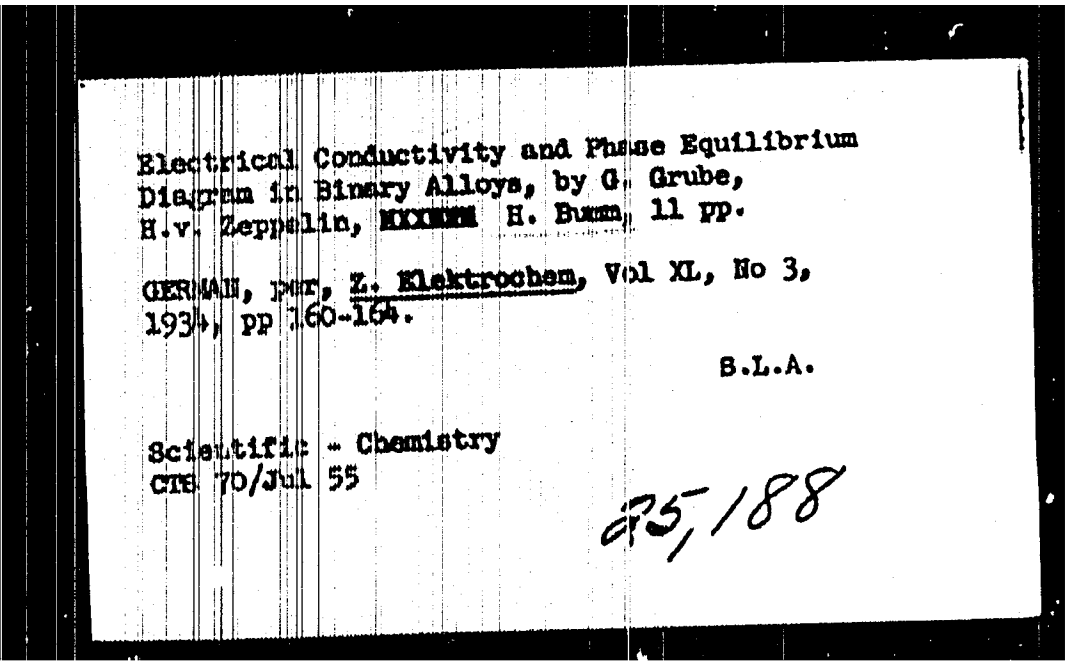

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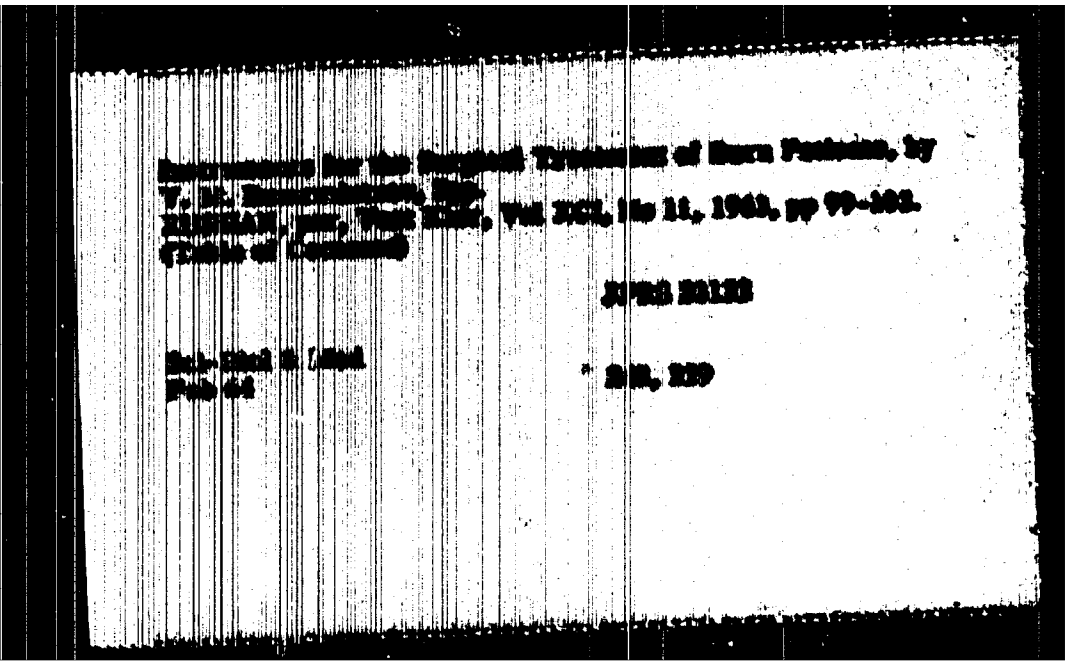

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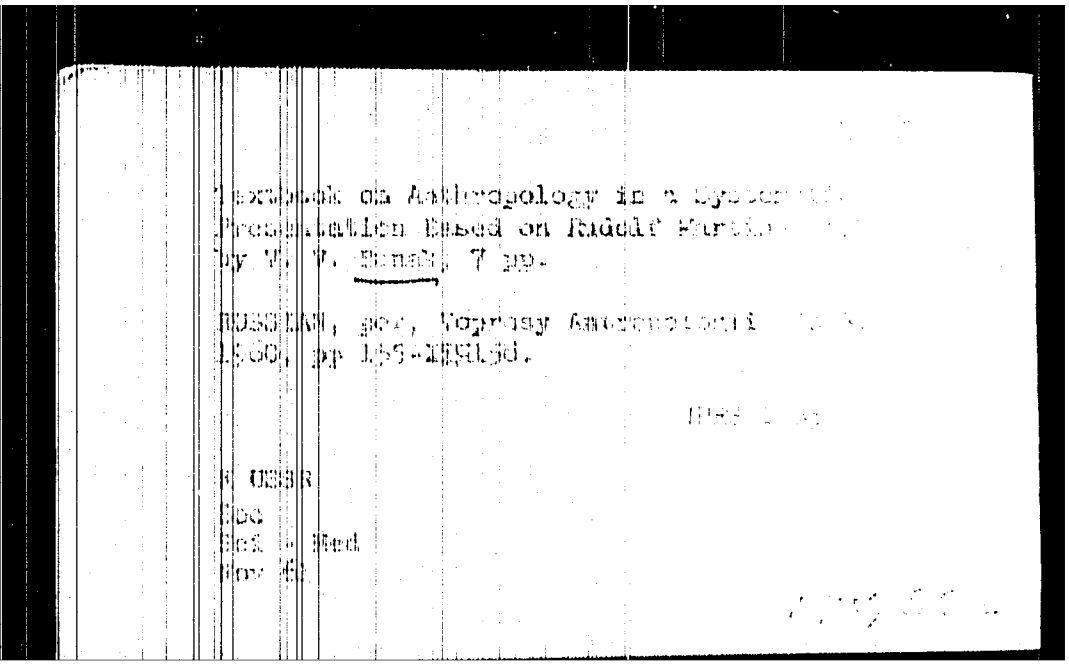

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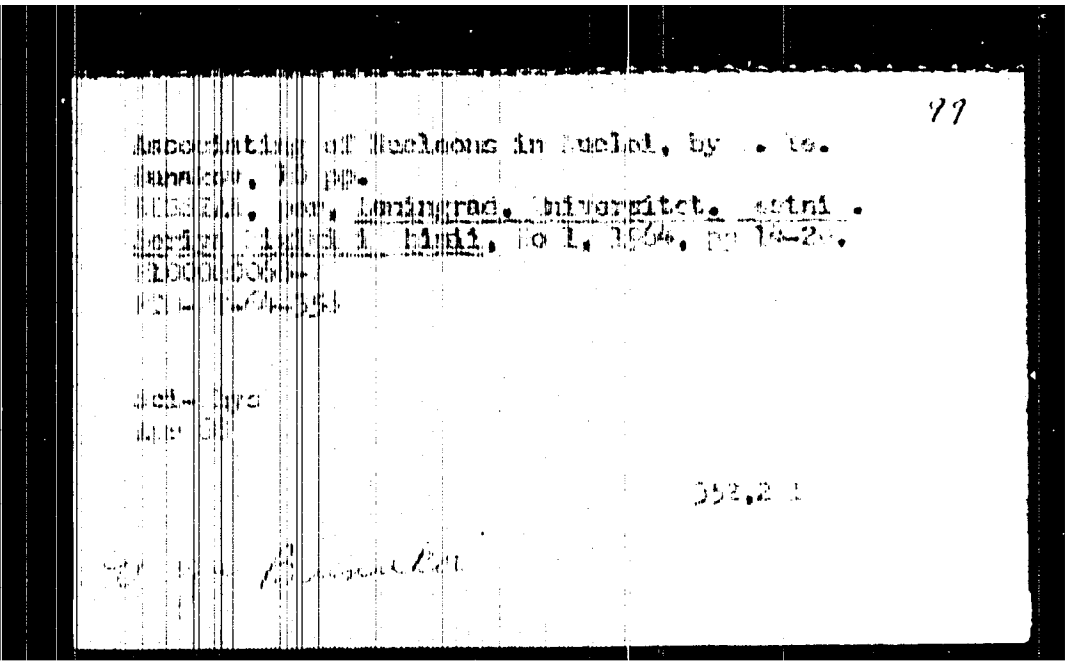

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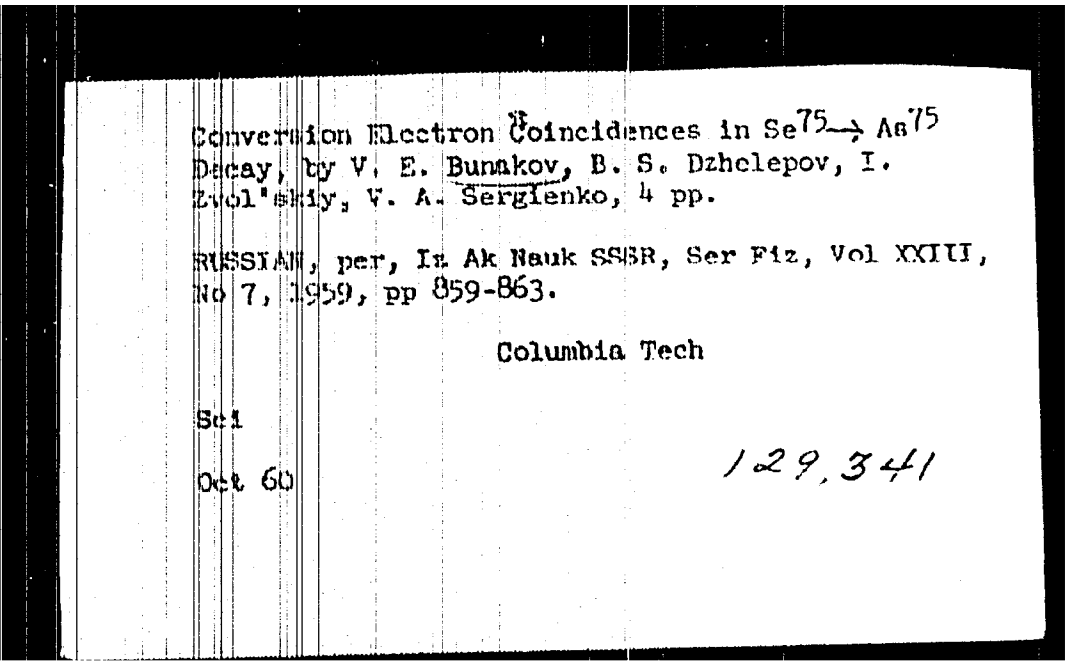

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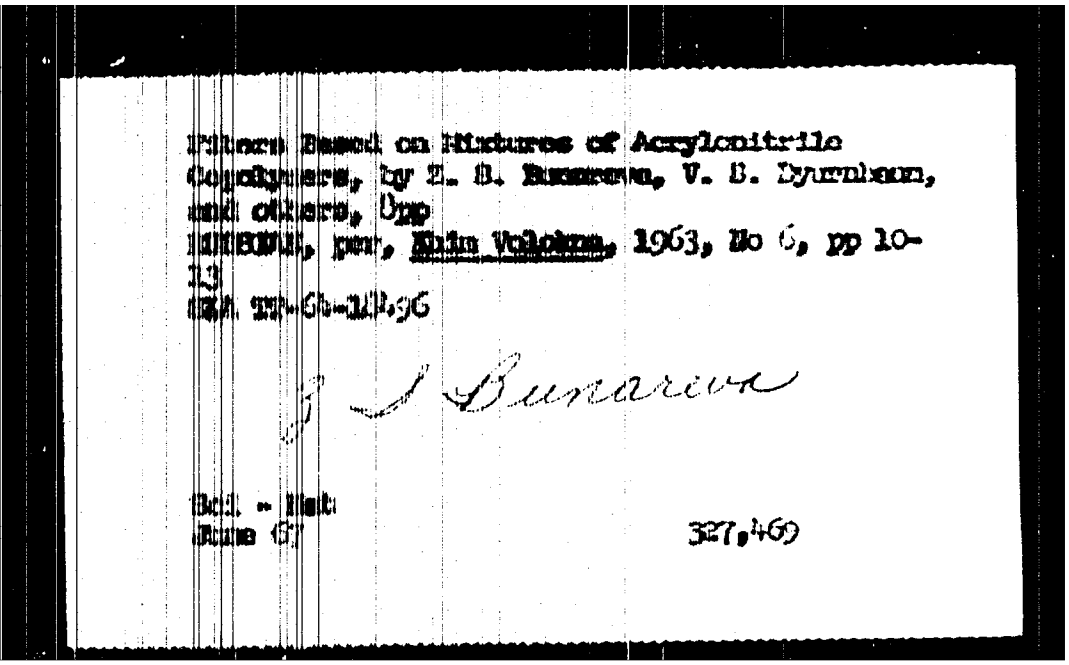

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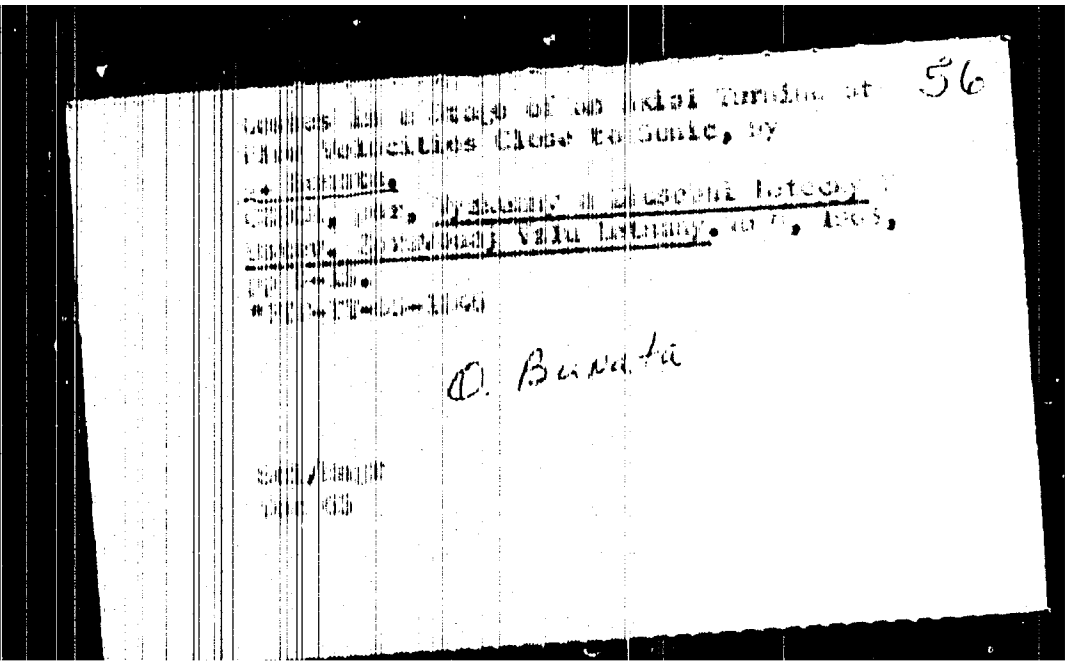

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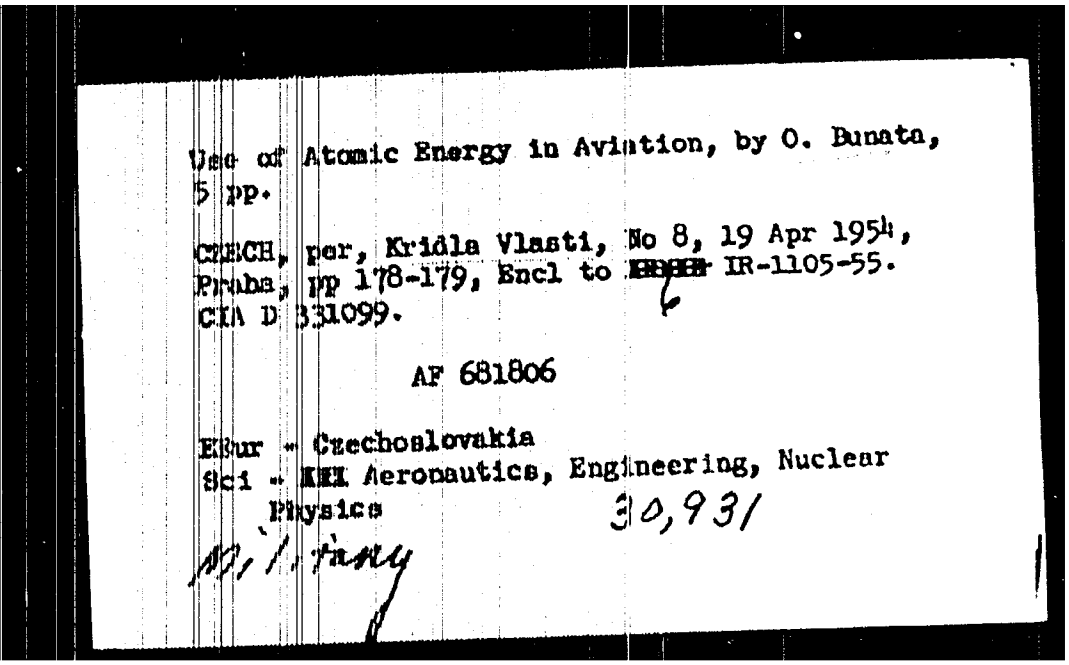

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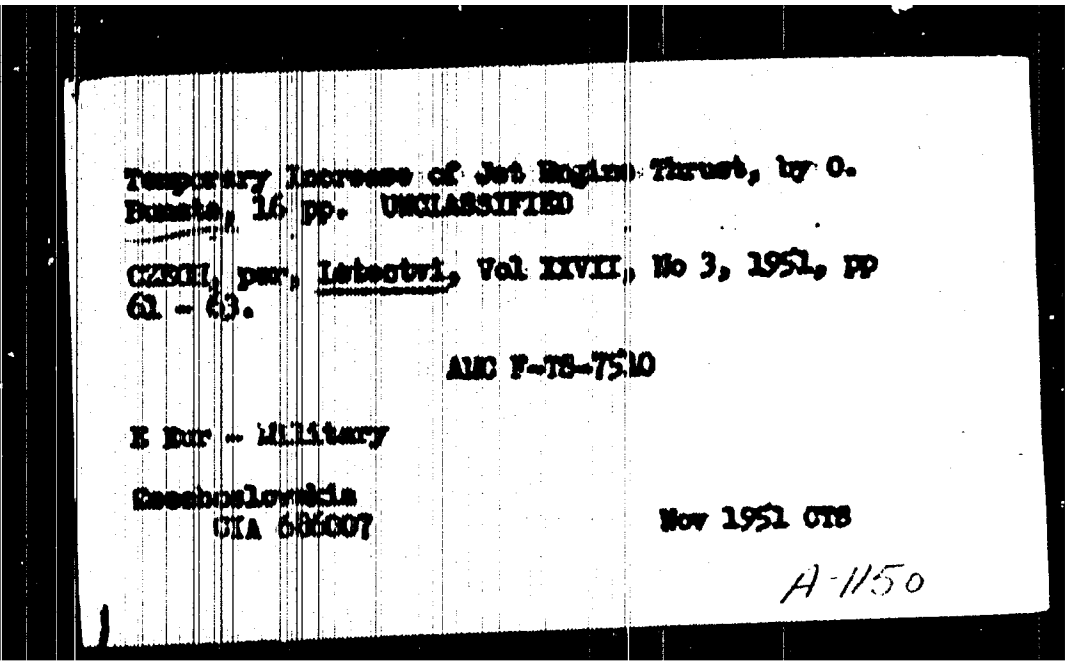

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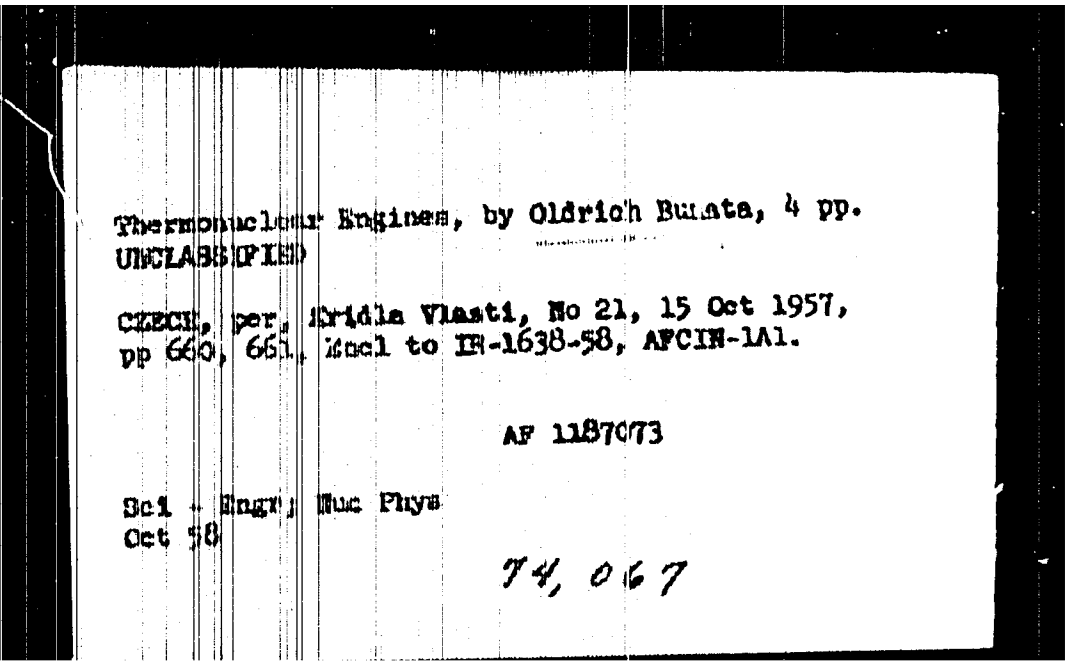

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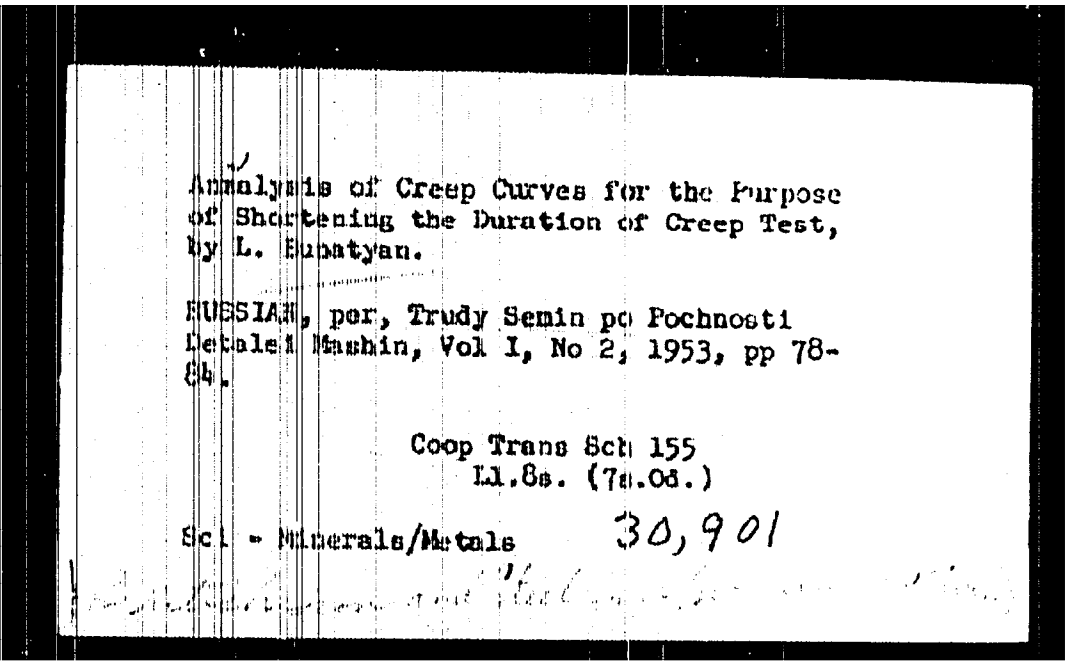

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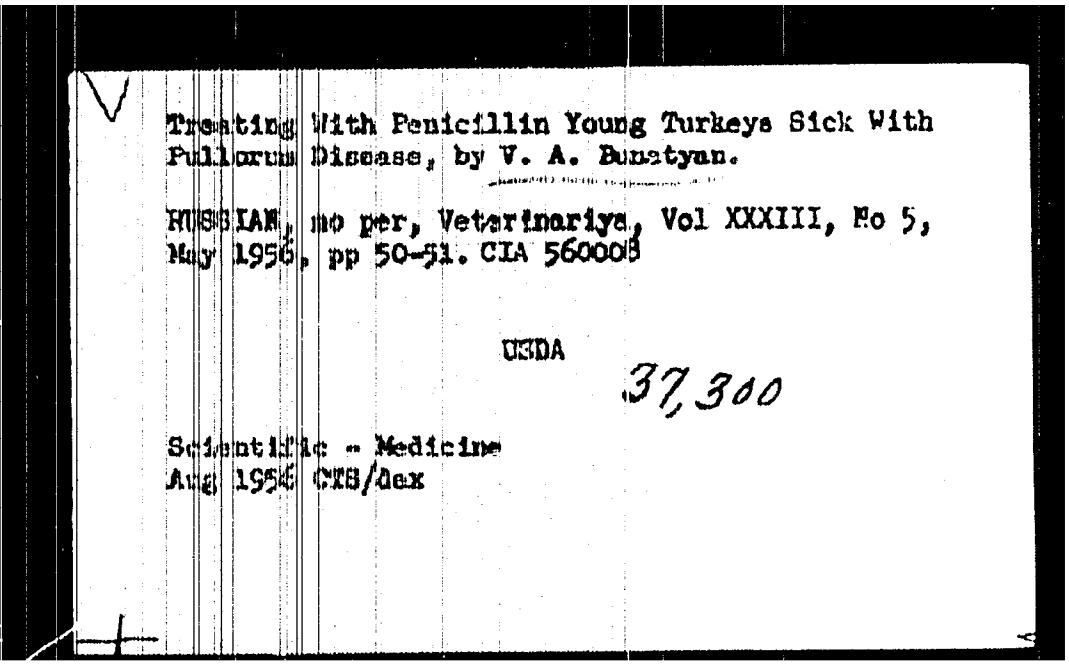

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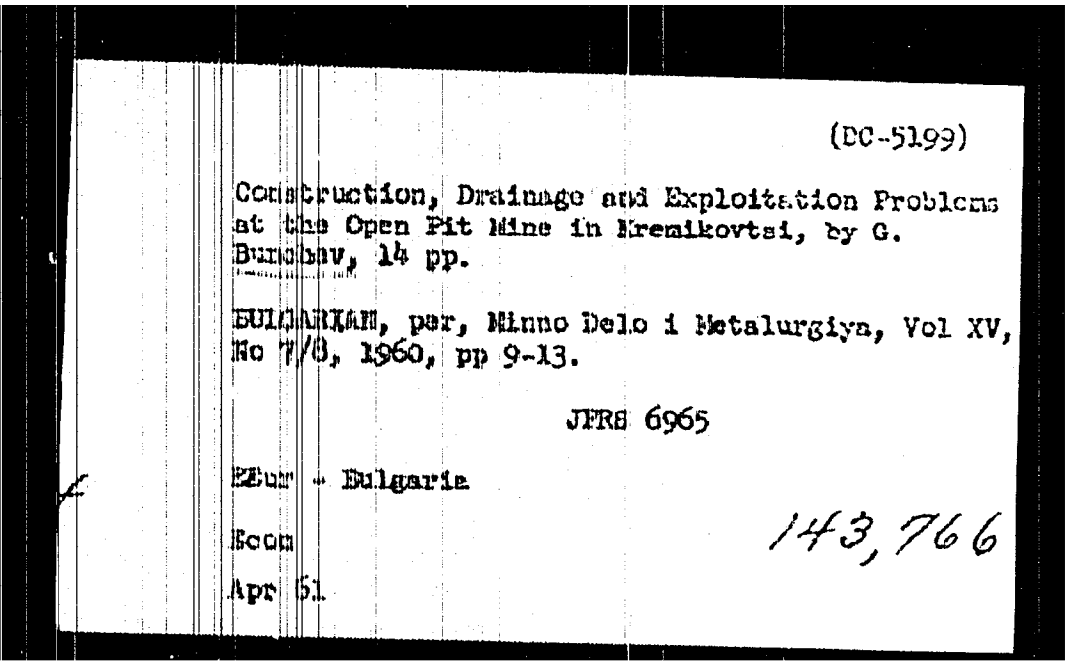

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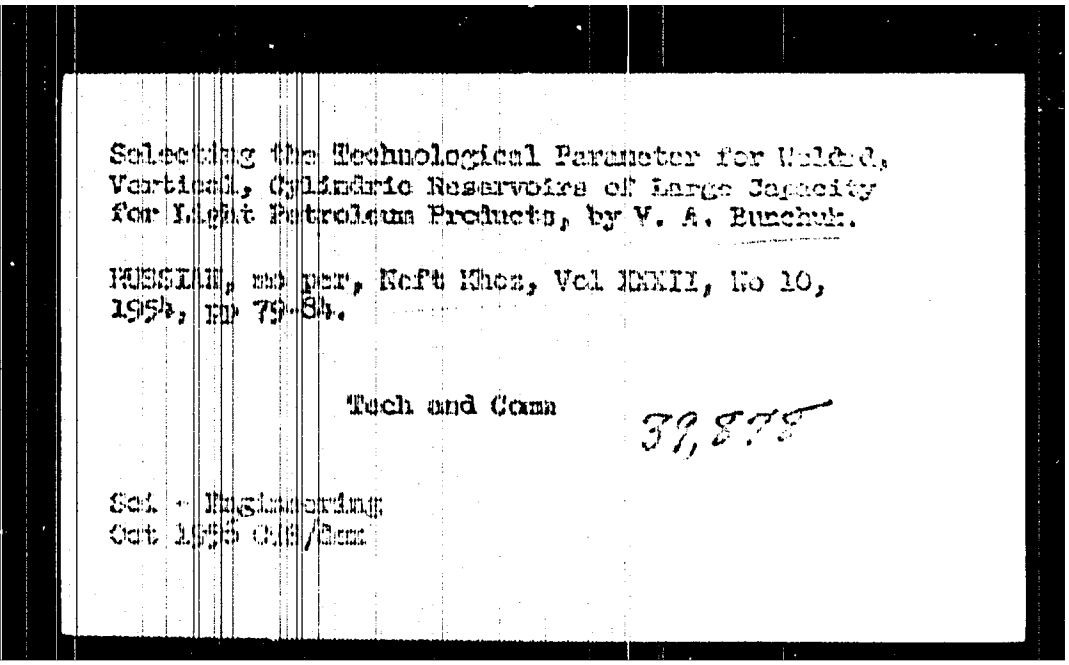

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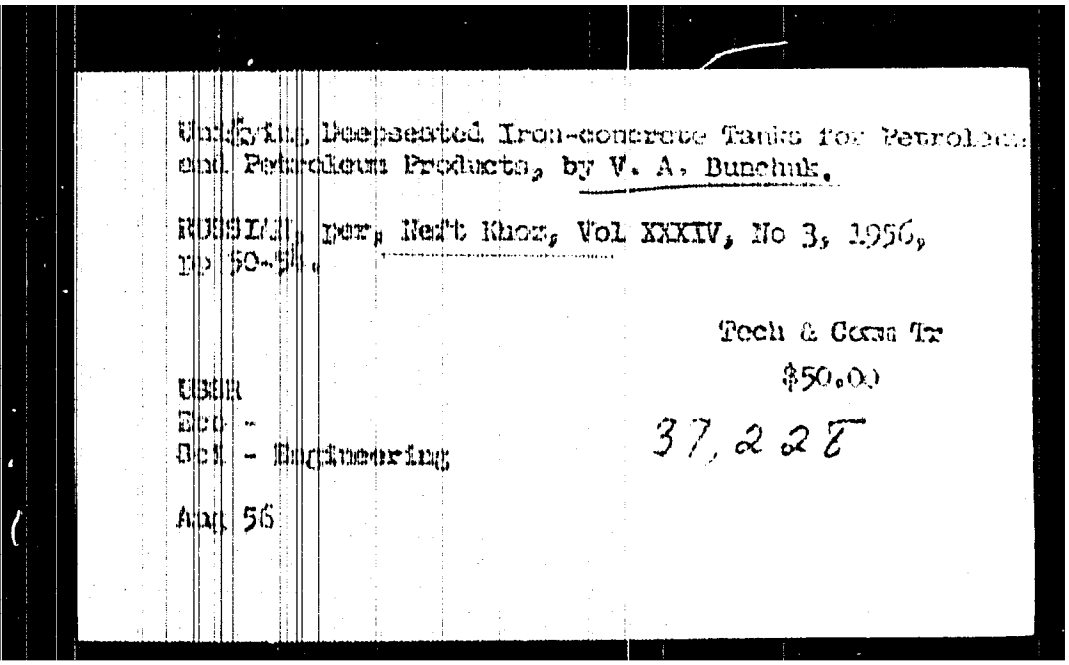

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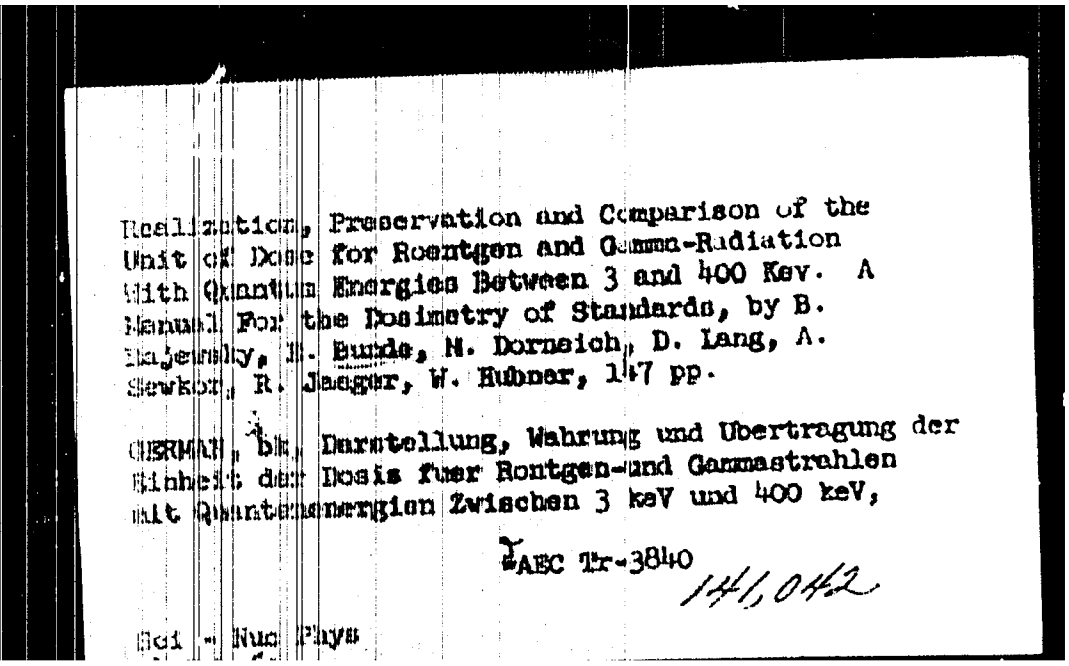

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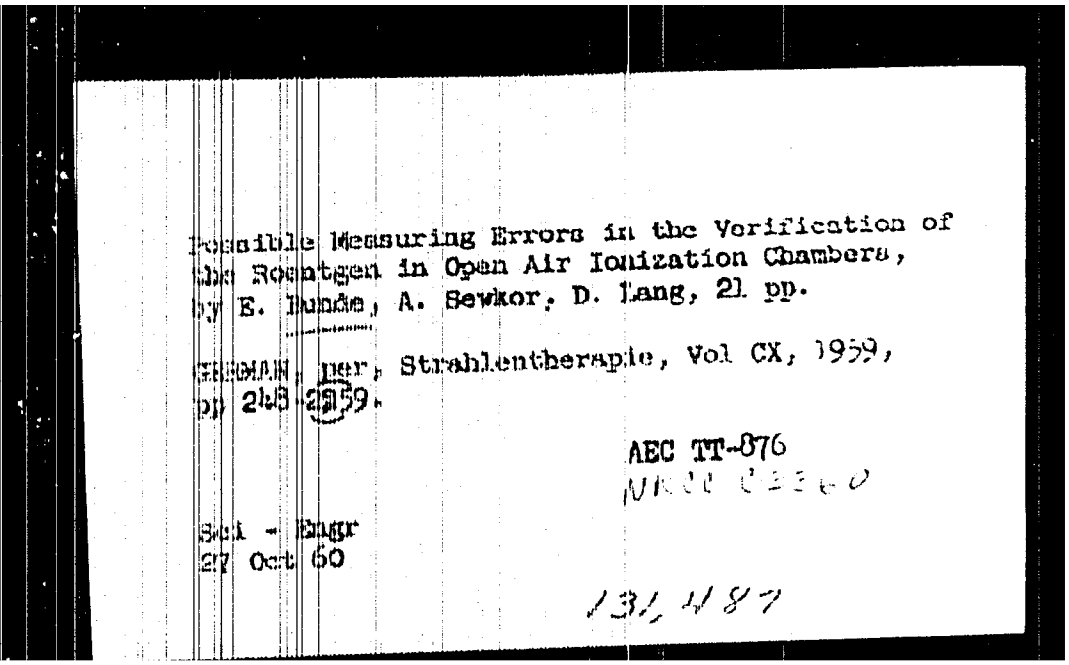

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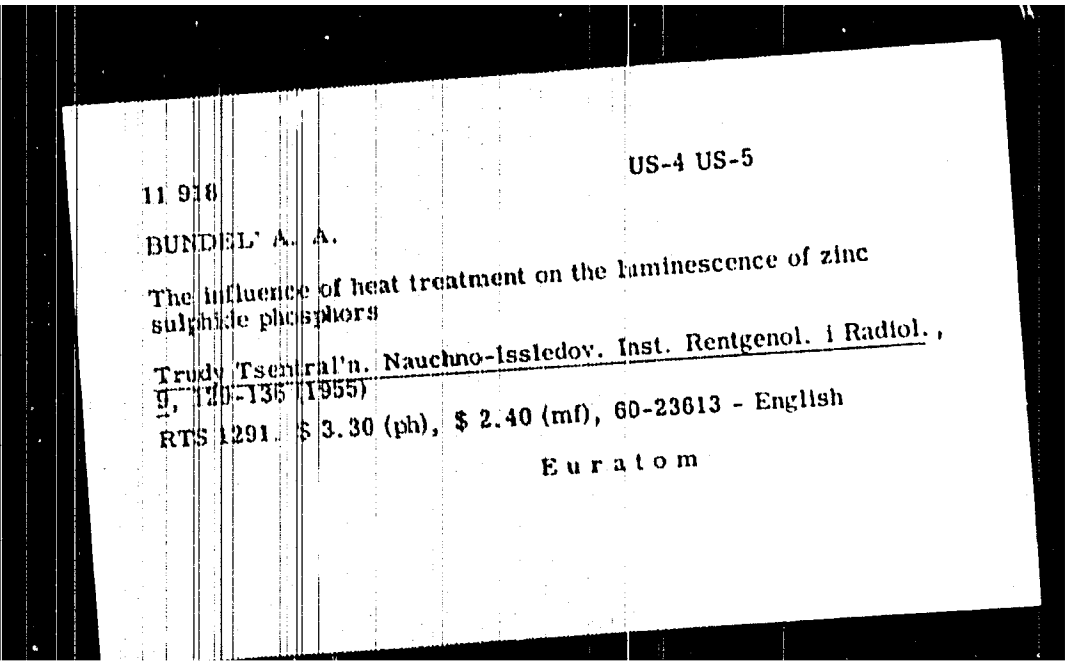

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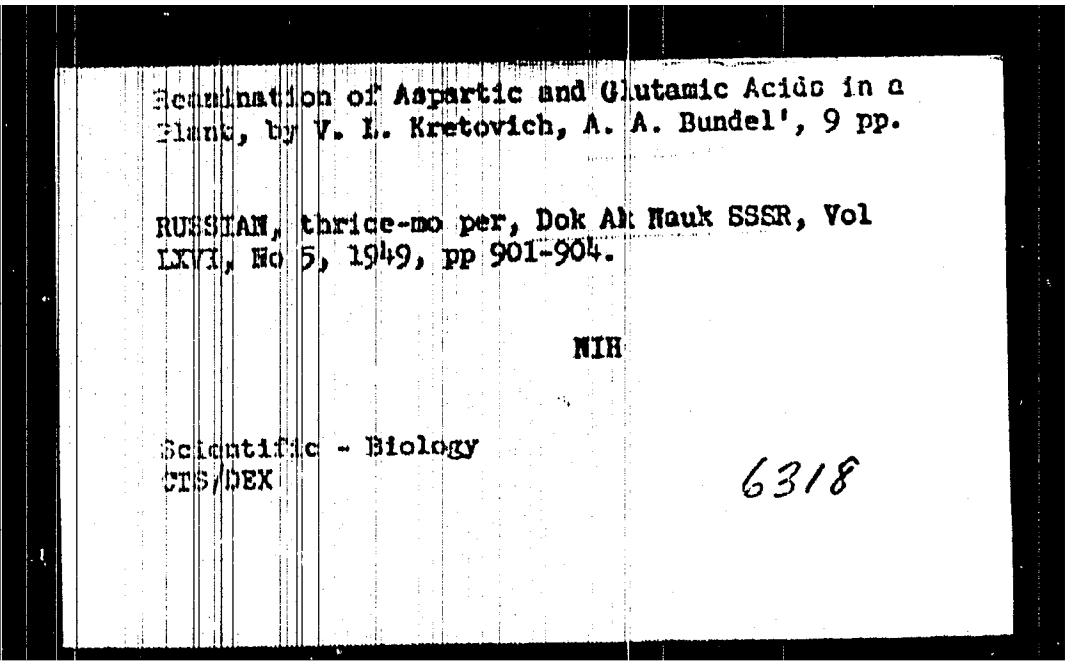

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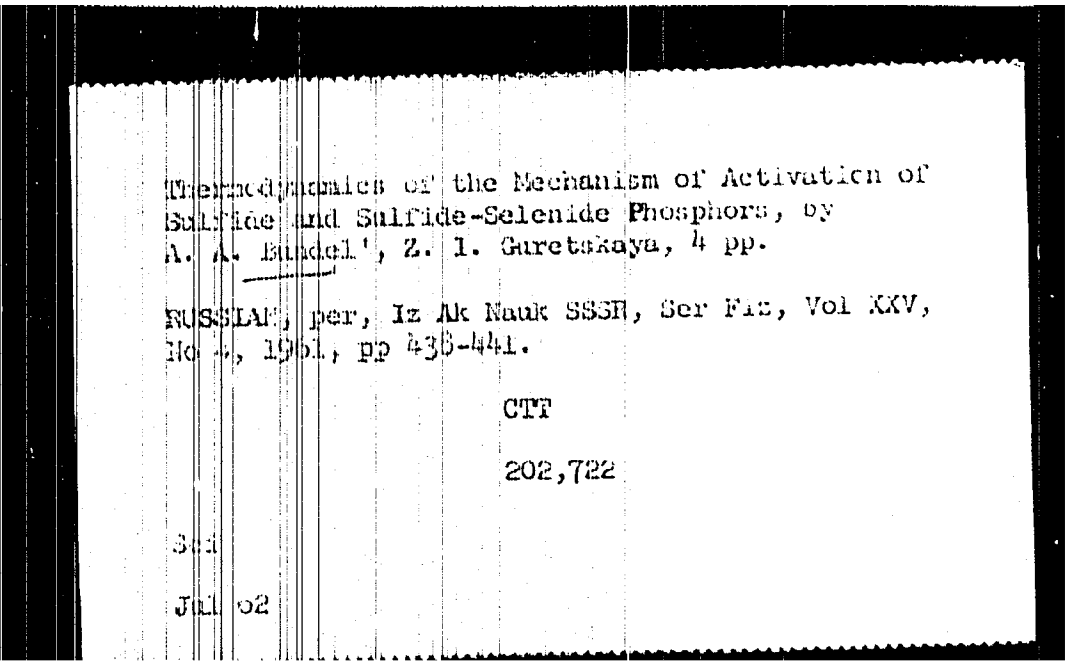

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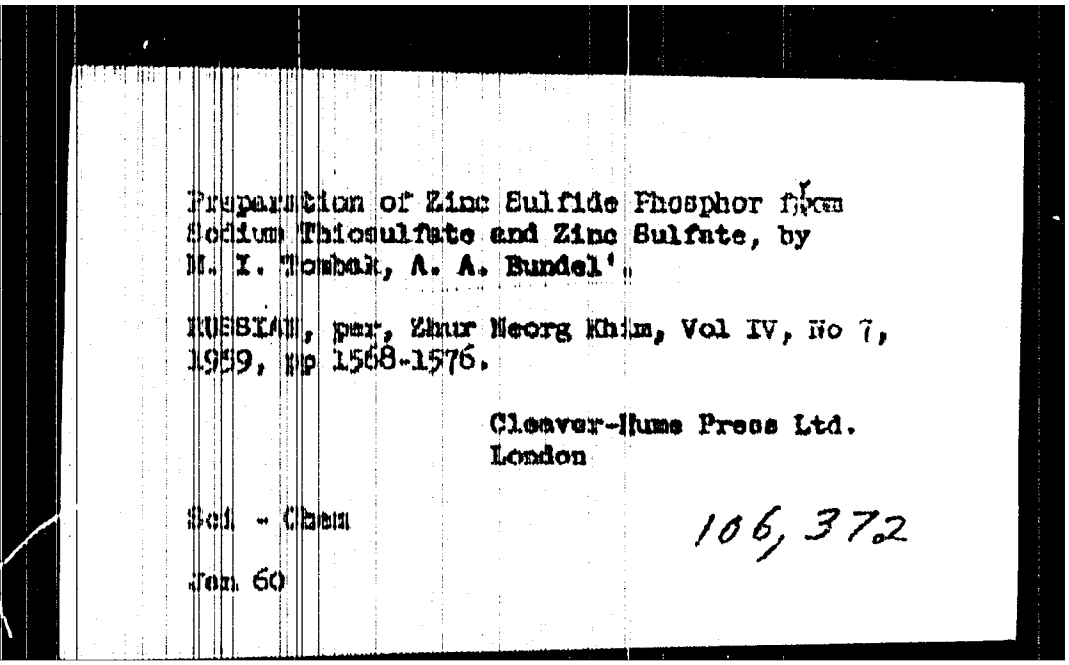

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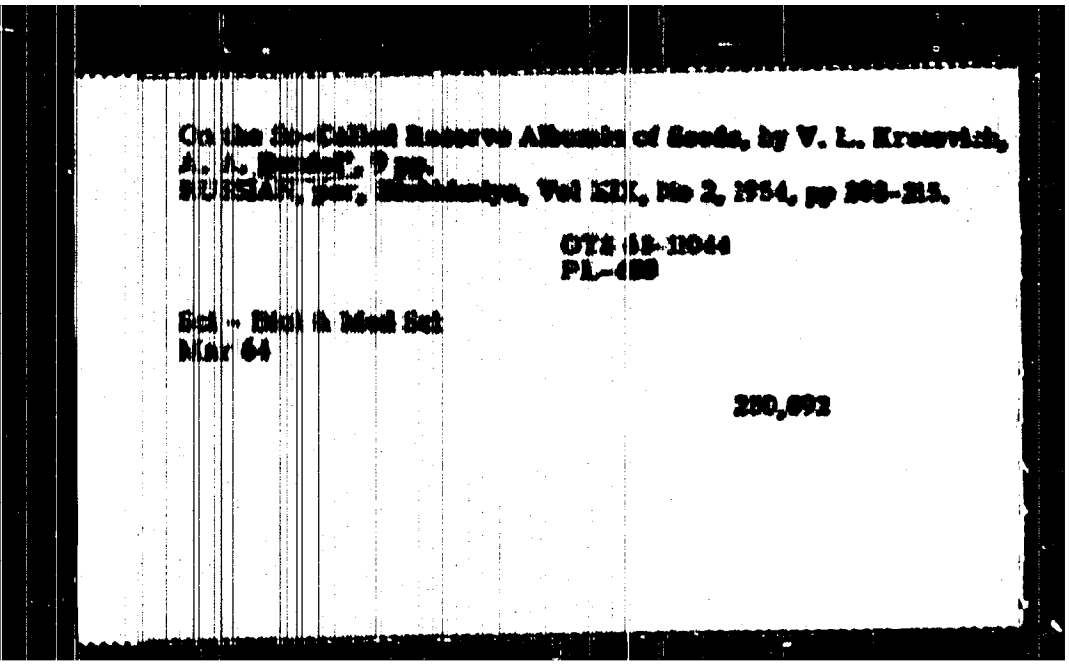

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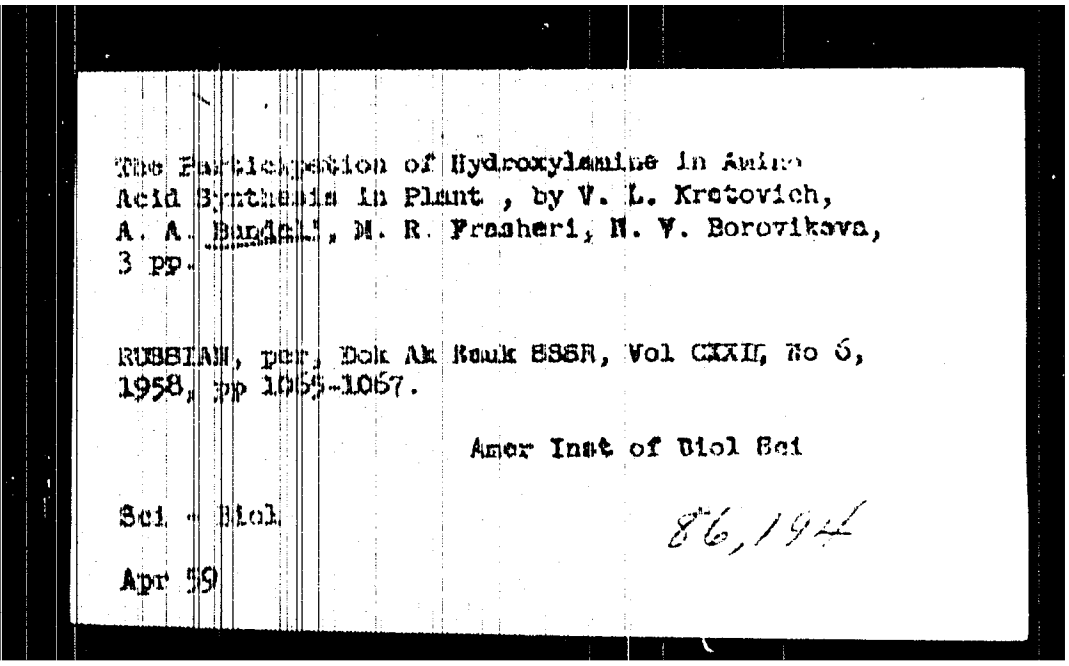

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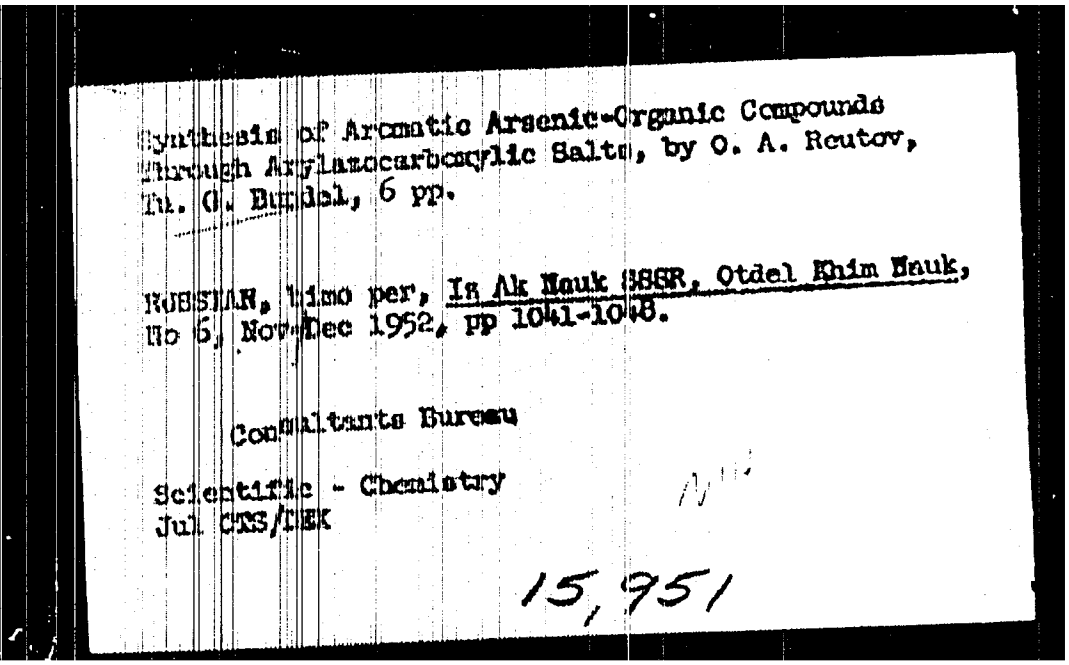

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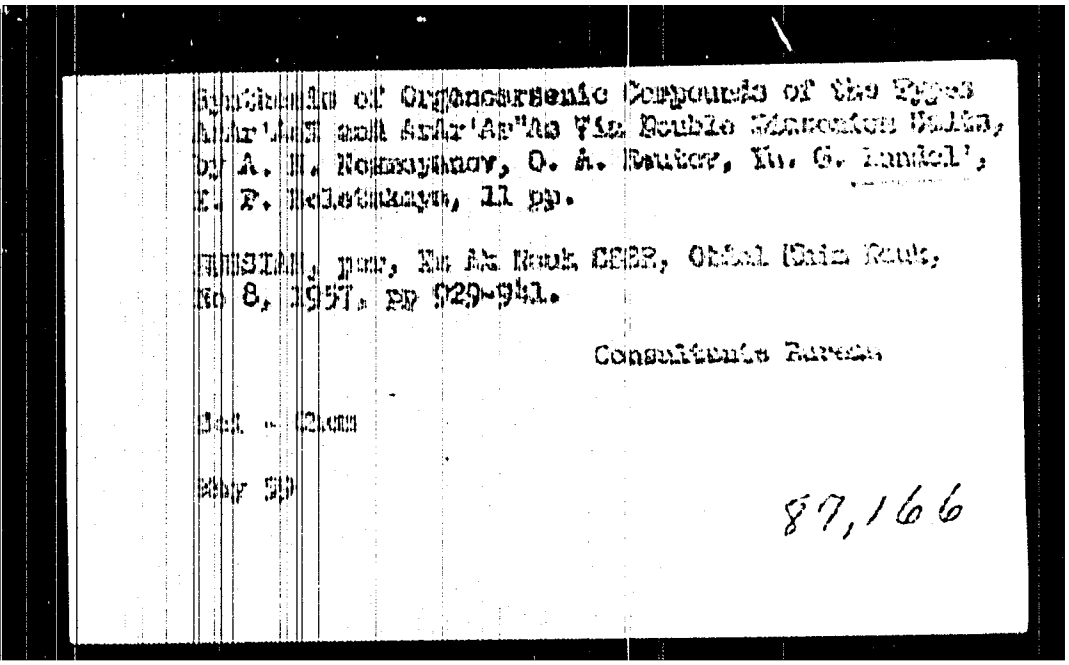

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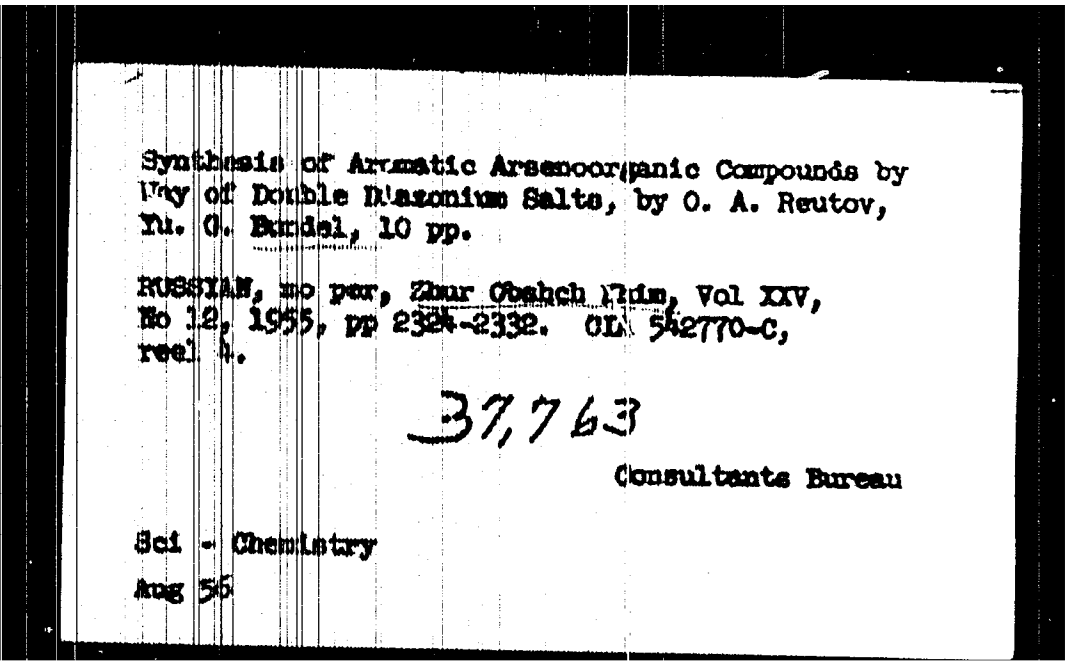

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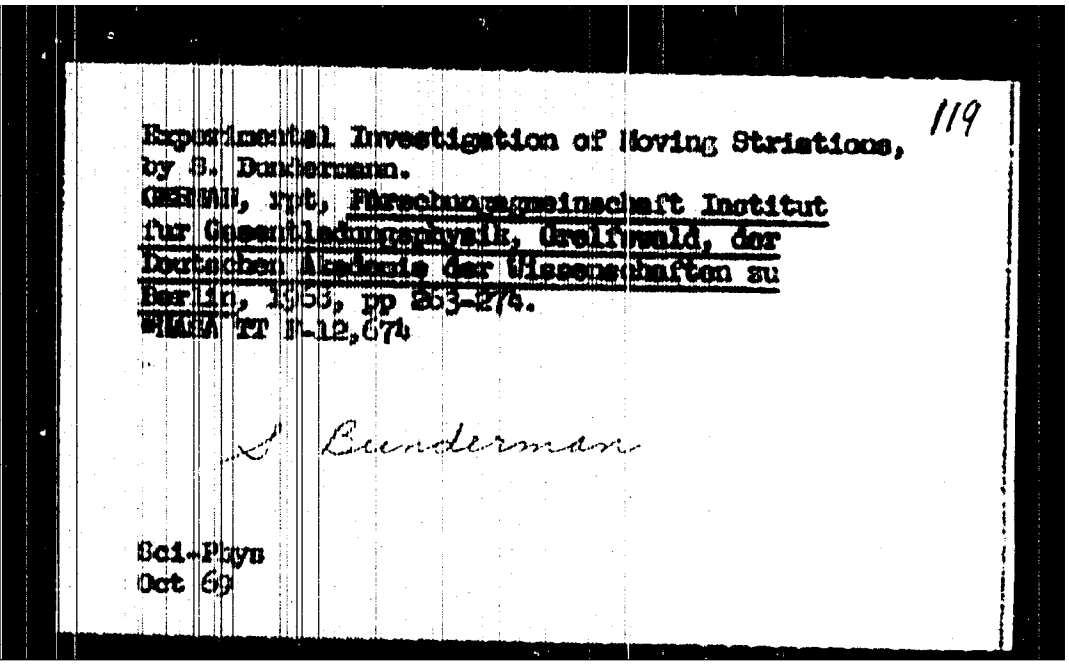

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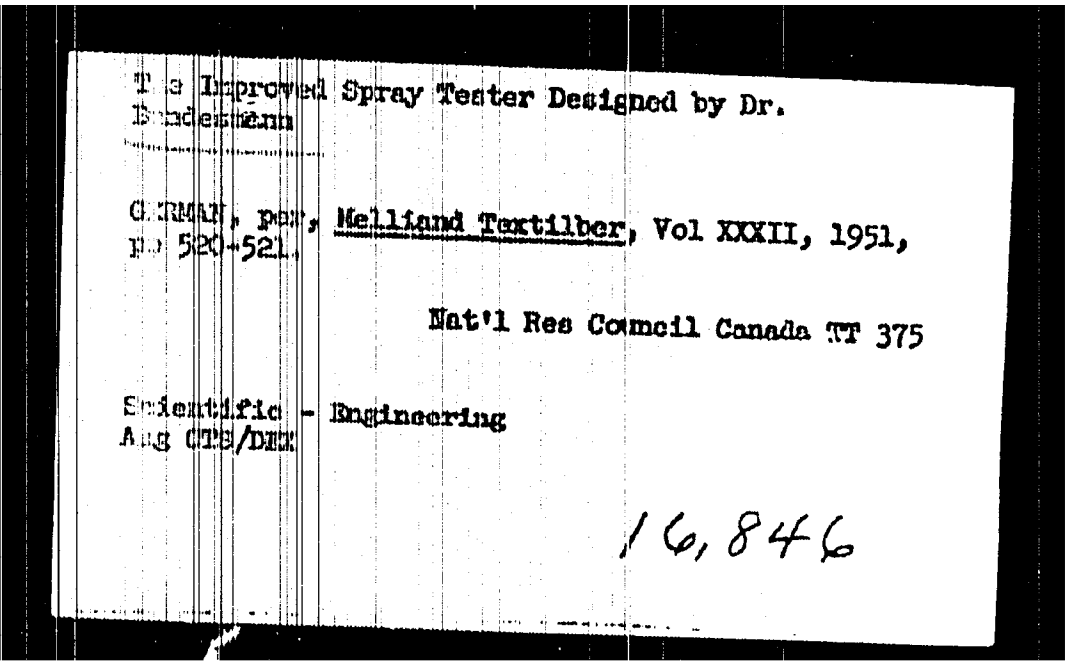

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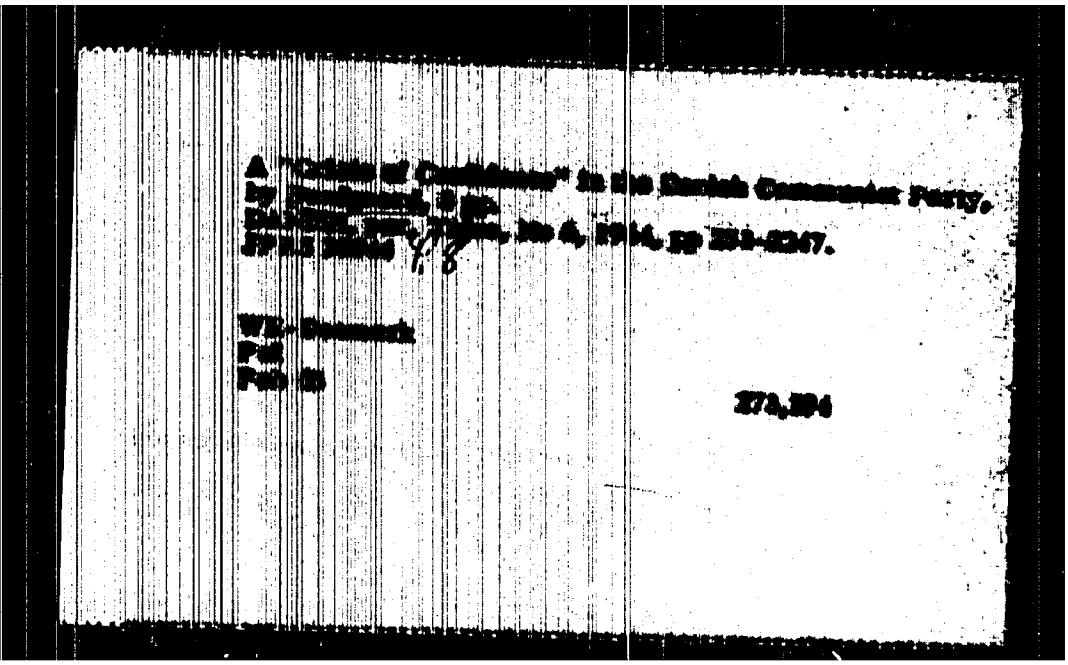

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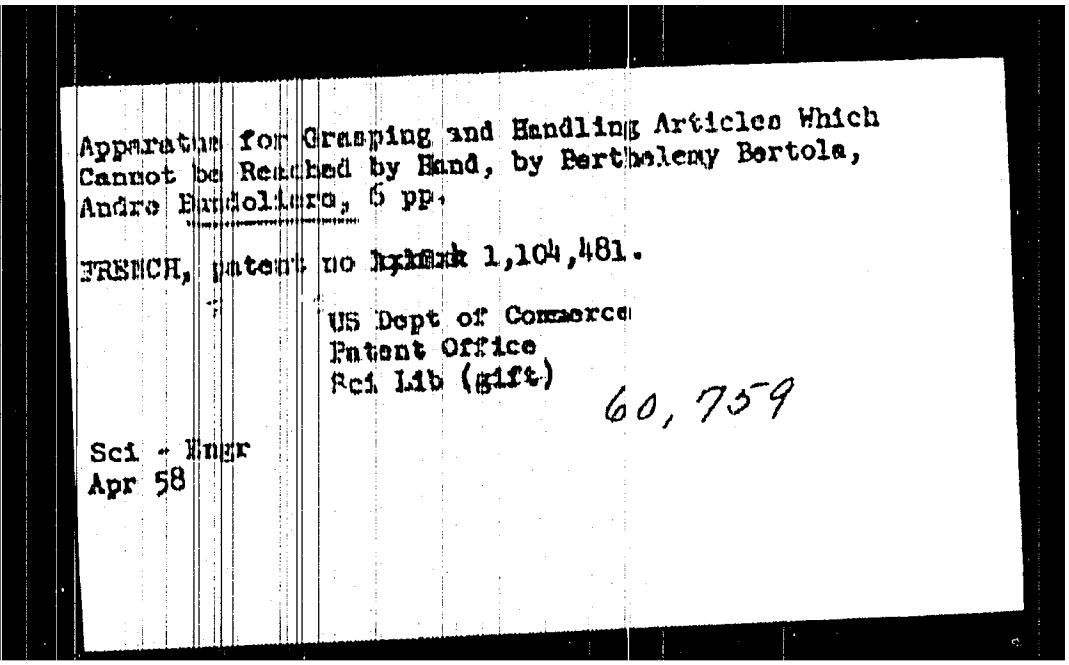

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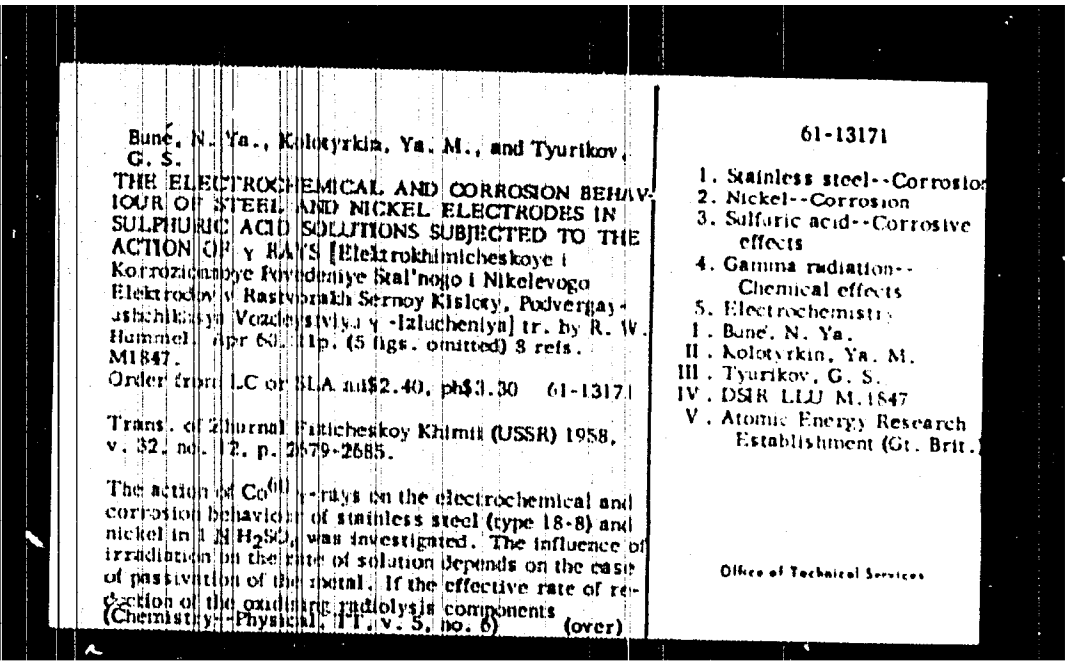

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The action of Co^{60} γ-rays on the electrochemical and corrosion behavior of stainless steel (type 18-8) and nickel in 1 M H_2SO_4 was investigated. The influence of irradiation on the rate of solution depends on the ease of passivation of the metal. If the effective rate of reduction of the oxidizing radiolysis components

(Chemistry--Physical, IT, v. 5, no. 6) (over)

61-13171

1. Stainless steel--Corrosion
2. Nickel--Corrosion
3. Sulfuric acid--Corrosive effects
4. Gamma radiation--Chemical effects
5. Electrochemistry
I. Bune, N. Ya.
II. Kolotyrkin, Ya. M.
III. Tyurikov, G. S.
IV. DSIR LLU M.1847
V. Atomic Energy Research Establishment (Gt. Brit.)

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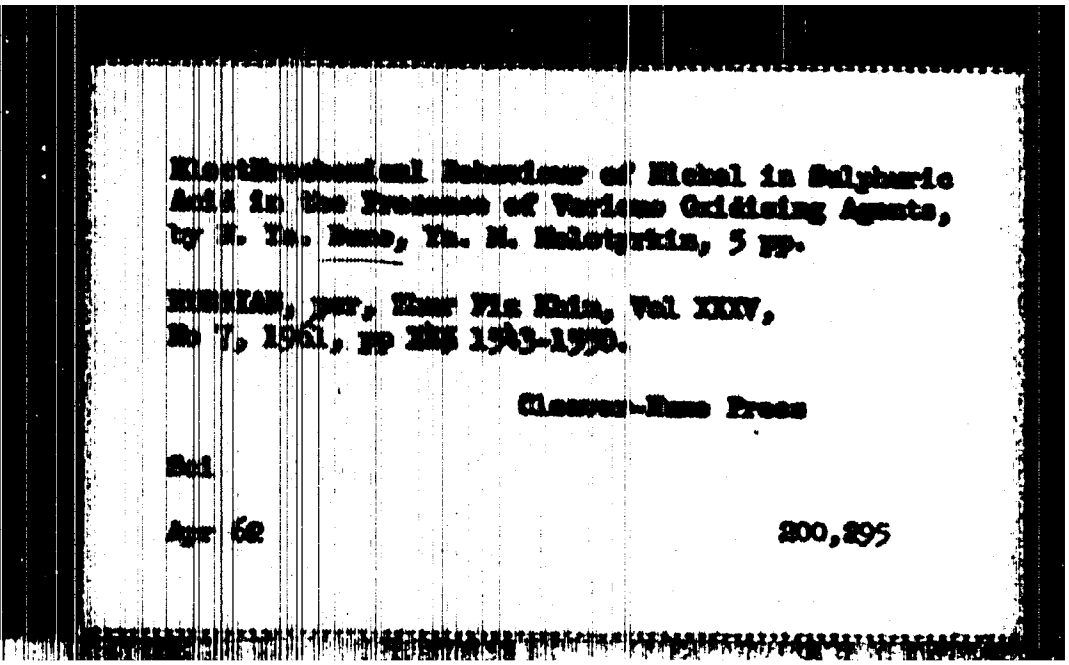

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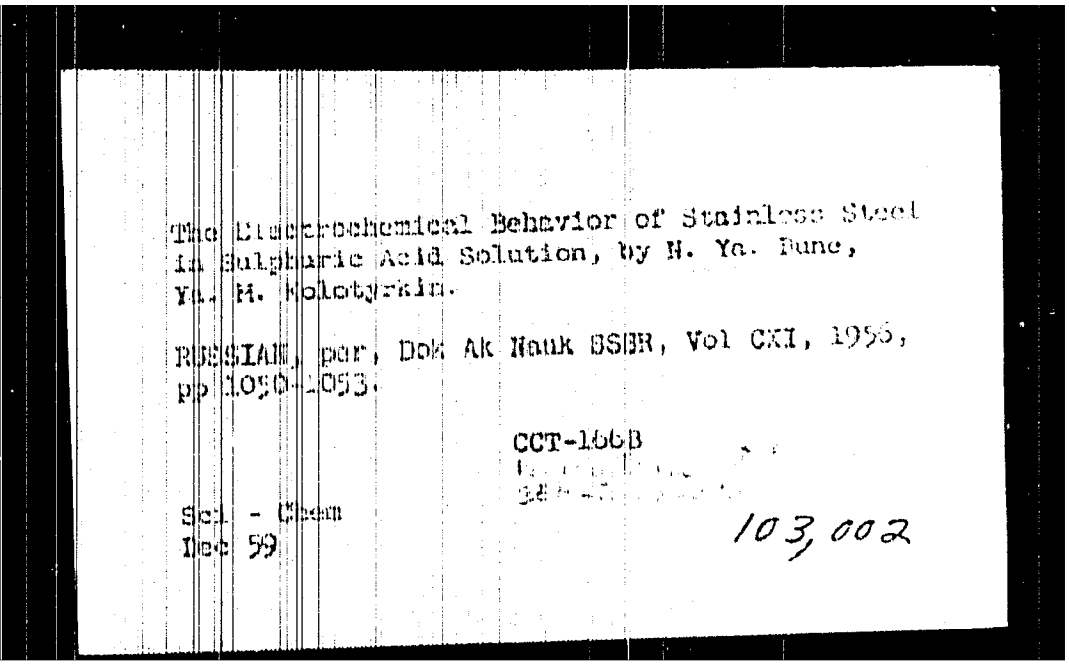

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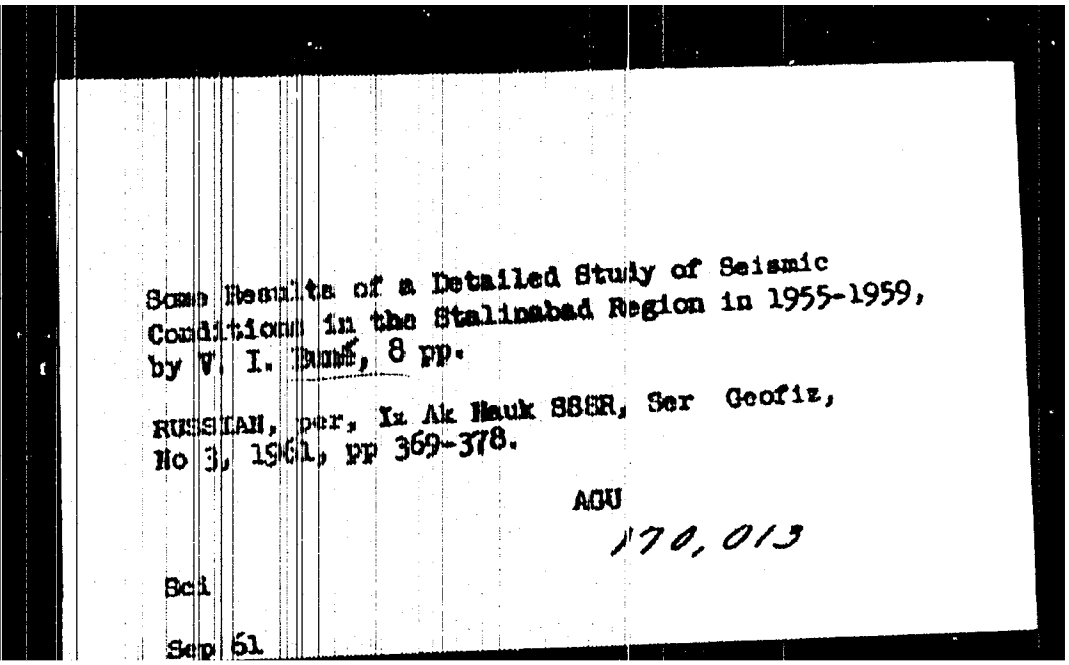

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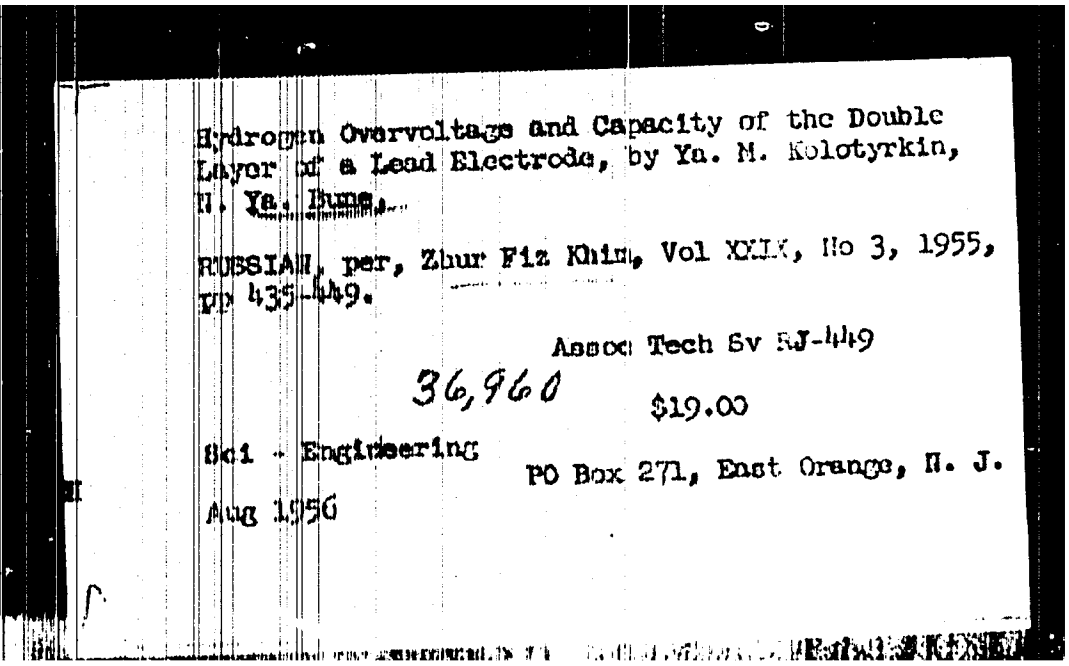

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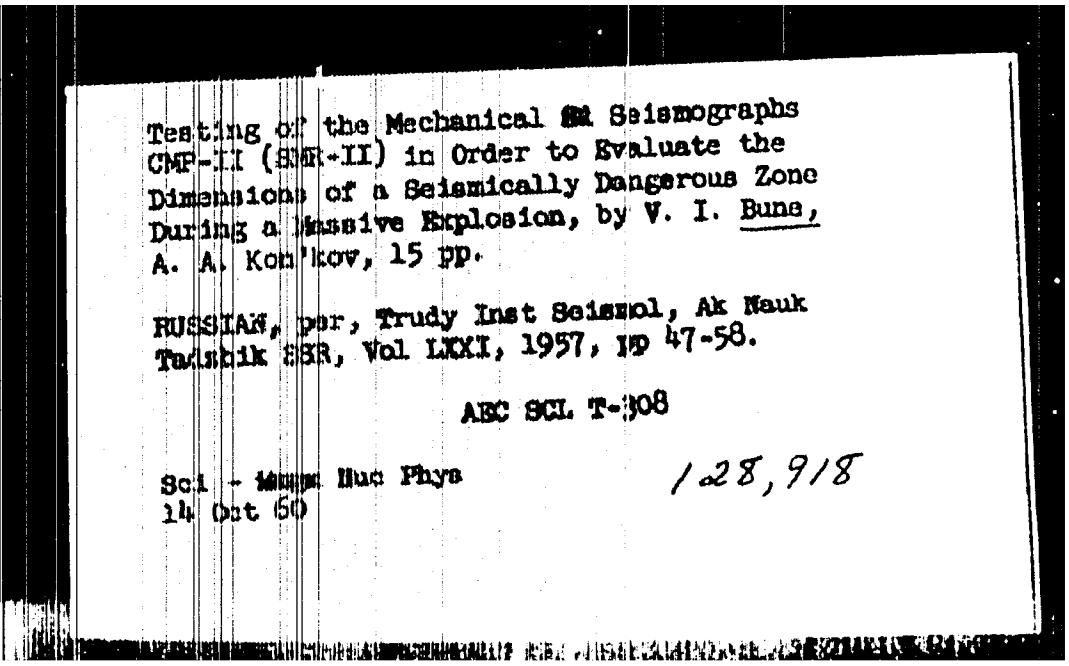

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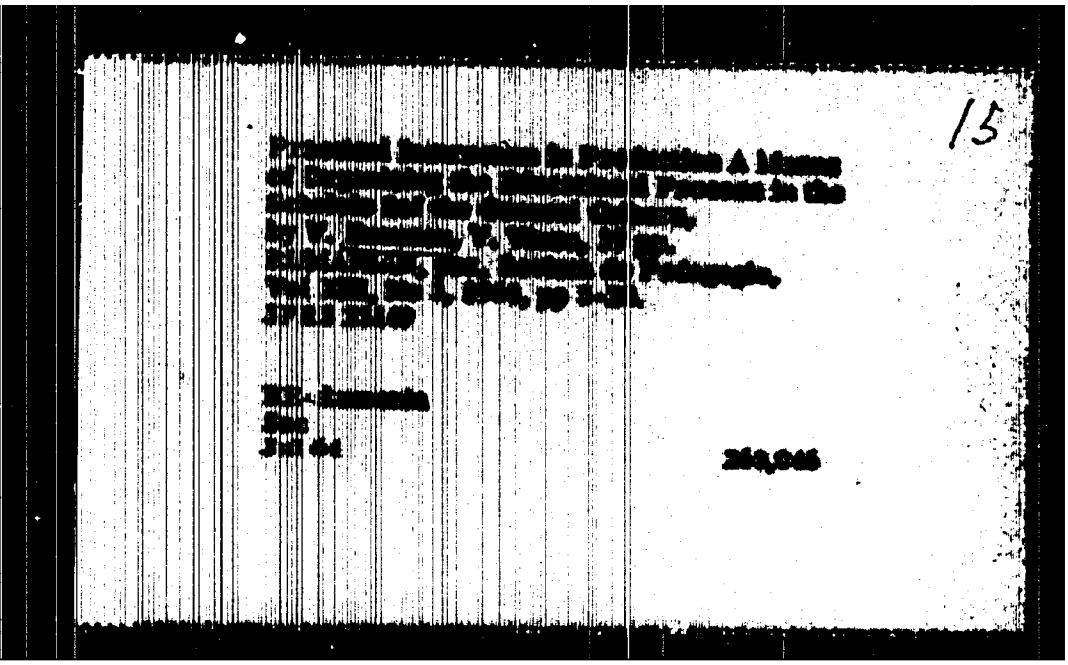

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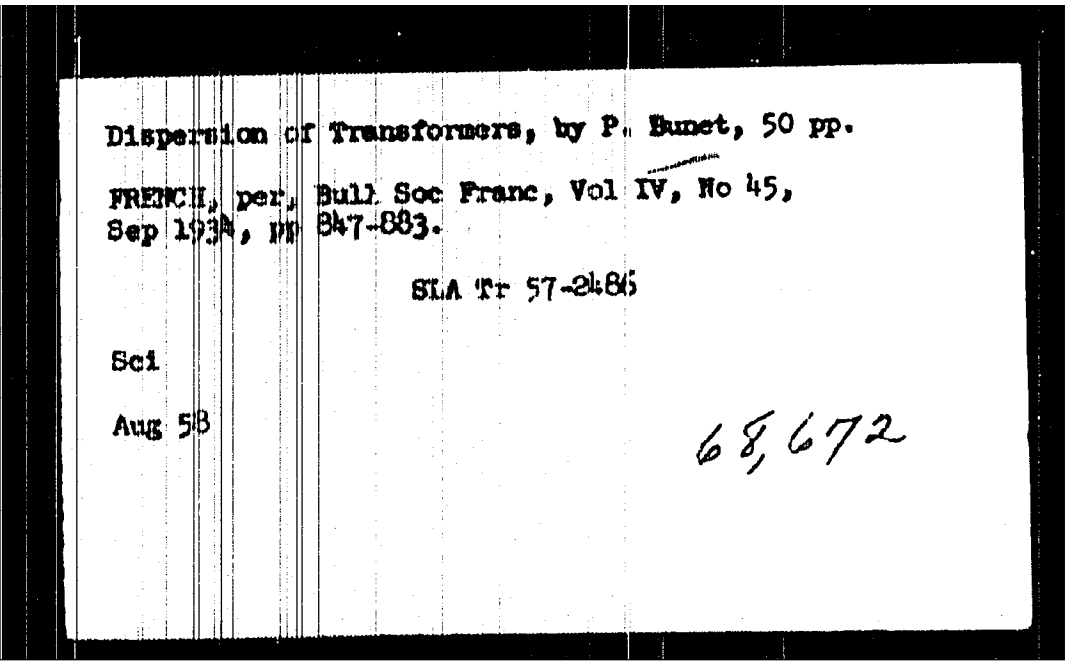

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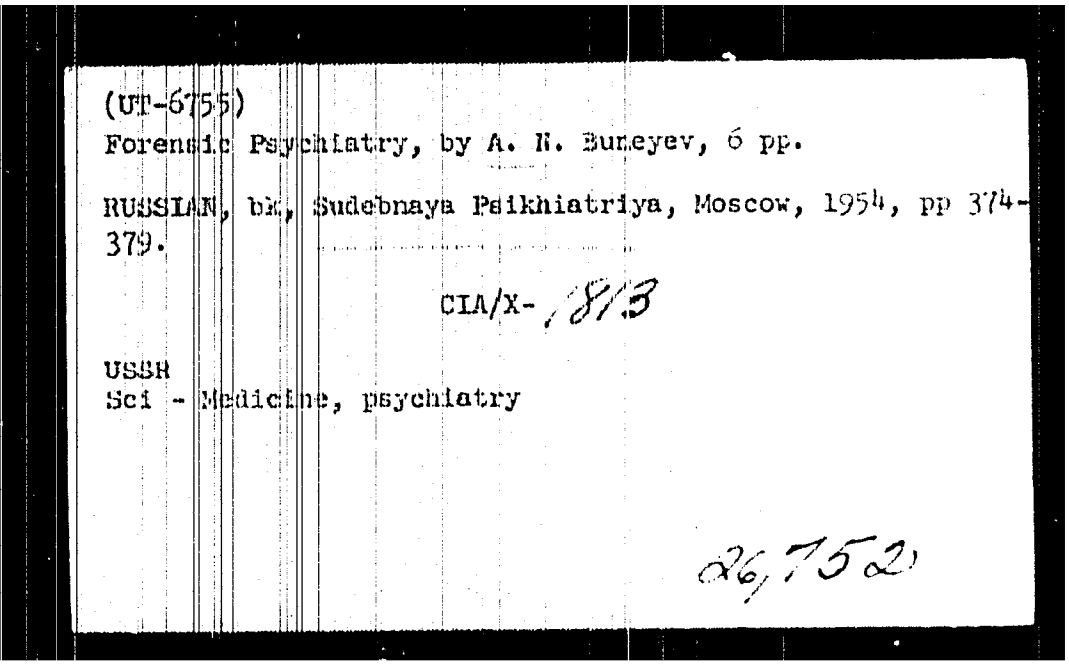

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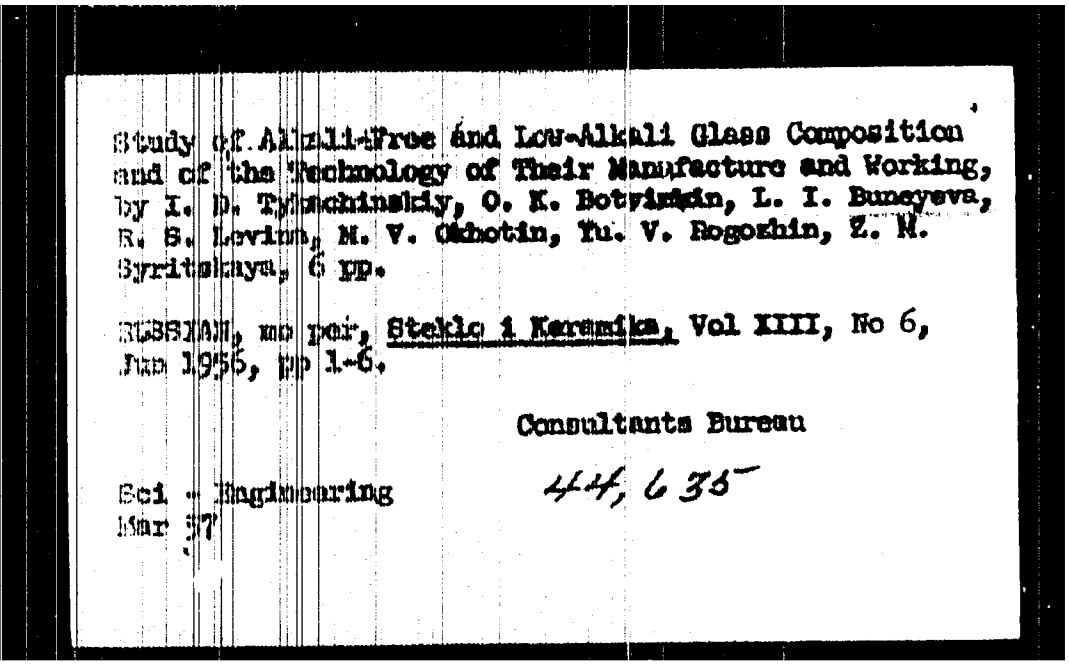

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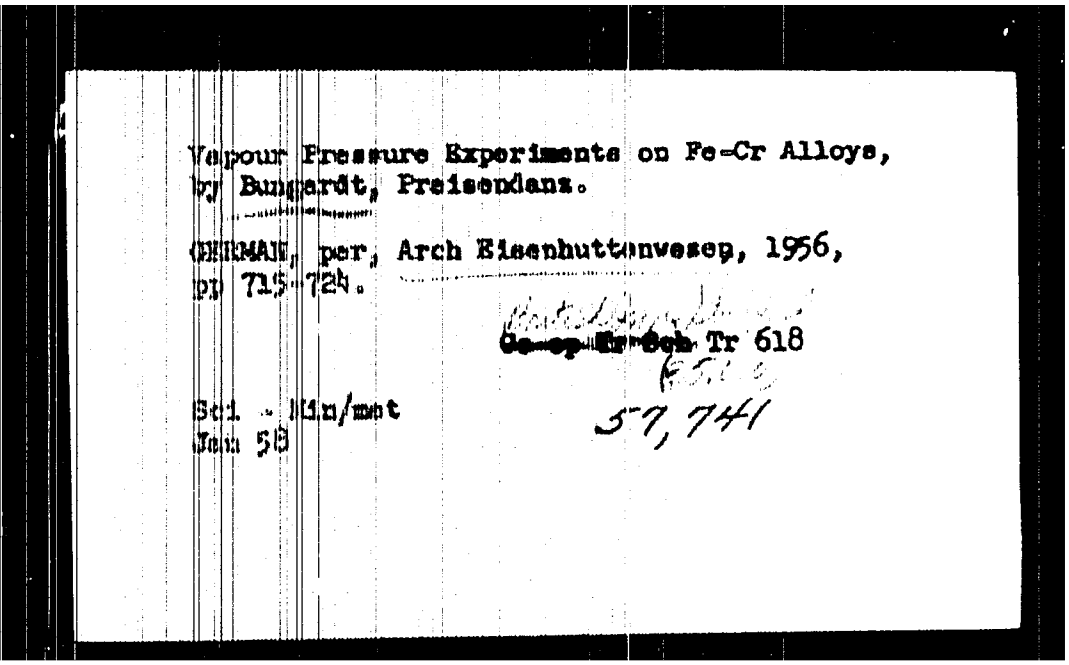

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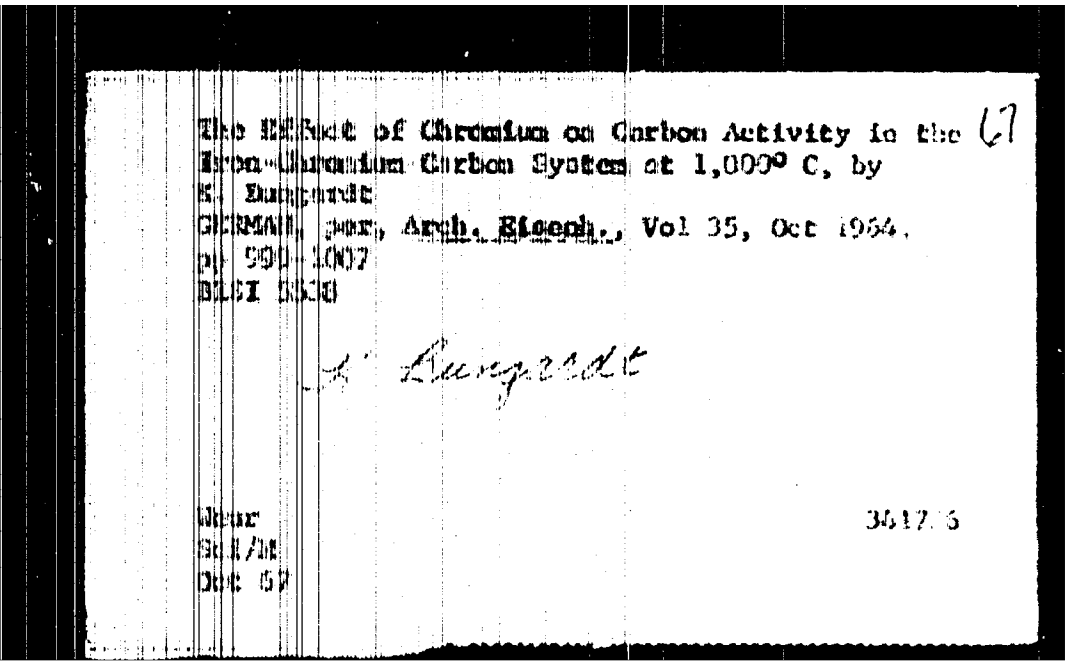

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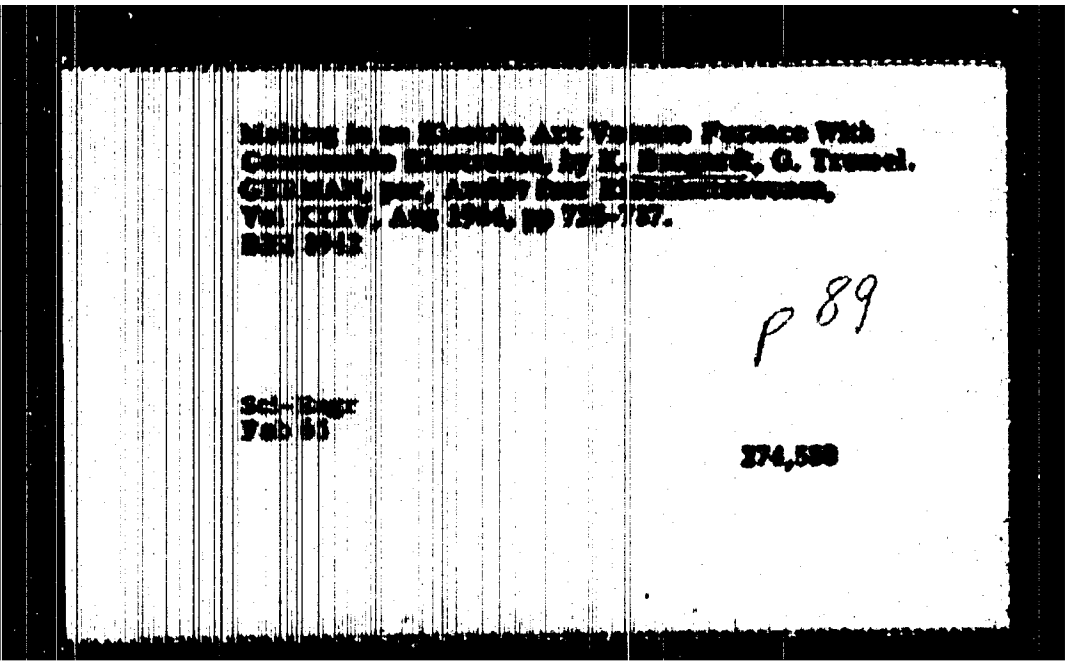


p 89

Sci-Tech
Feb 55

174,588

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

The Effect of Boron on the Precipitation Processes and Creep Behaviour of Niobium-Containing Austenitic Chromium-Nickel-Molybdenum Steels, by K. Bungardt, G. Lehmann.

GERMAN, pam., Archiv fur das Eisenhuttenwesen, Vol XXXIV, July 1963, pp 531-546.

BISI 3439

243,614

Sci - M/M
Dec 63

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

Effect of Melting Under Reduced Pressure on Some Properties of Steel, by K. Bungardt.

GERMAN, per, Schweizer Archiv, Vol XXVIII, No 12, 1962, pp 485-490.

HB 5804

Sch-M/H

243,494

Nov 63

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

Bungardt, Karl and Welgand, Hans-Hermann.
INFLUENCE OF HEAT TREATMENT ON SOME PROPERTIES OF CORROSION RESISTANT NICKEL-MOLYBDENUM ALLOYS (Einfluss der Wärmebehandlung auf Einige Eigenschaften von Korrosionsbeständigen Nickel-Molybdän-Legierungen). [1960] [19]p. 9 refs.
Order from SLA m$2.40, ph$3.30 61-10566

Trans. of Z[eitschrift für] Metallkunde (West Germany) 1959, v. 50 [no. 1] p. 11-18.

The effect of a heat treatment on microstructure, hardness, strength and corrodibility was tested with four corrosion resistant nickel-molybdenum alloys (with and without an addition of chromium). It was found that a change in these properties depends on the kind of precipitate which is formed during the heat treatment. The results are discussed. (Author)

(Metallurgy--Structural, TT, v. 5, no. 7)

61-10566

1. Molybdenum-nickel alloys--Heat treatment
I. Bungardt, K.
II. Welgand, H.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

EFFECT OF MOLYBDENUM OF STRUCTURE, HARDNESS AND IMPACT STRENGTH OF NIOBIUM-CONTAINING CHROMIUM-NICKEL AUSTENITIC STEELS AFTER ANNEALING AT TEMPERATURES BETWEEN 650 AND 850°C, BY K. BURGARDT, G. LEINARTZ.

GERMAN, PER, ARCHIV FUER EISENHUTTENWESEN, VOL XXXIII, APR 1962, PP 251-259.

BISI 2897

AEC

SCI - M/M

NOV 62

LIST 151

217,050

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

The Melting of Steels and Alloys in the Induction- and Arc-Vacuum Furnace, by K. Bungardt

GERMAN, per, Stahl und Eisen, Vol LXXXII, 1962, pp 401-419.

BISI 2876

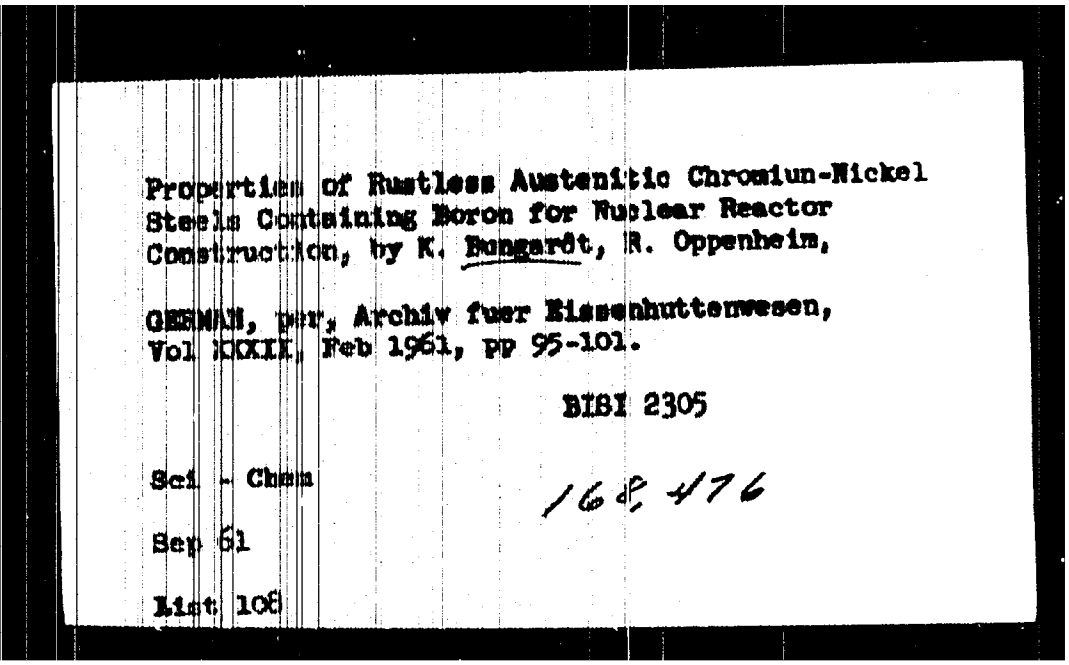
Sol - Engr
Feb 63

[redacted]

224,242

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5



Properties of Rustless Austenitic Chromium-Nickel Steels Containing Boron for Nuclear Reactor Construction, by K. Bungardt, R. Oppenheim,

GERMAN, per, Archiv fuer Eisenhuttenwesen, Vol XXXII, Feb 1961, pp 95-101.

BIBI 2305

Sci - Chem

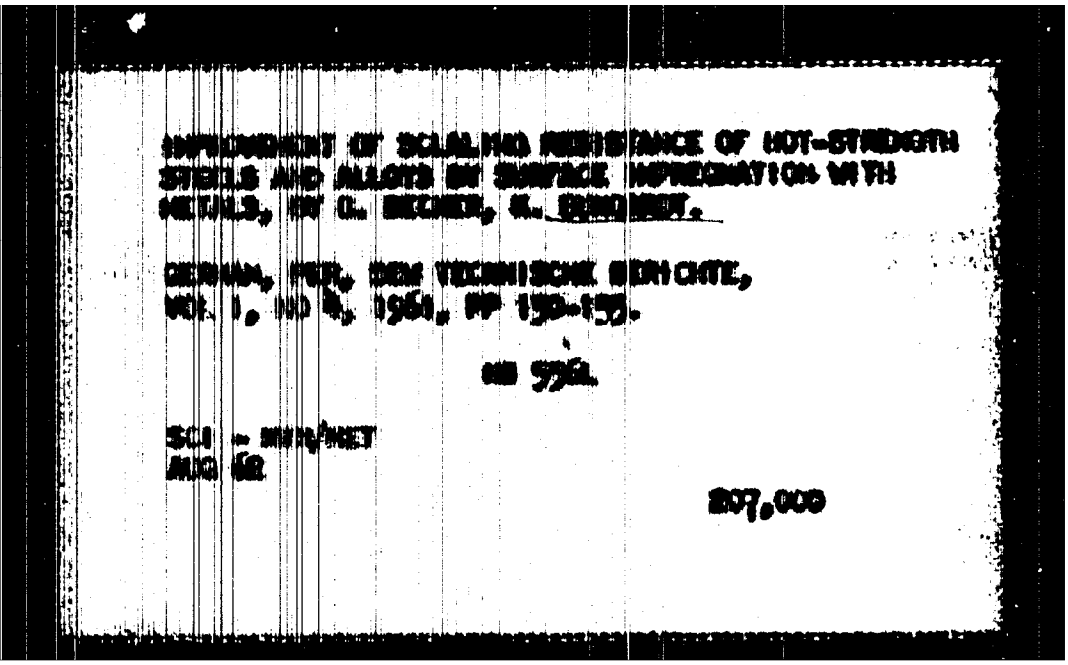
Sep 61

Lint 10f

16 of 476

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5



IMPROVEMENT OF SCALING RESISTANCE OF HOT-STRENGTH
STEELS AND ALLOYS BY SURFACE IMPREGNATION WITH
METALS, BY O. BECKER, K. [illegible].

GERMAN, FED. REP. VDI TECHNISCHE BERICHTE,
VOL. 1, NO 4, 1960, PP 150-155.

NO 5/62.

SCI - METALLURGY
AUG 62

207,000

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

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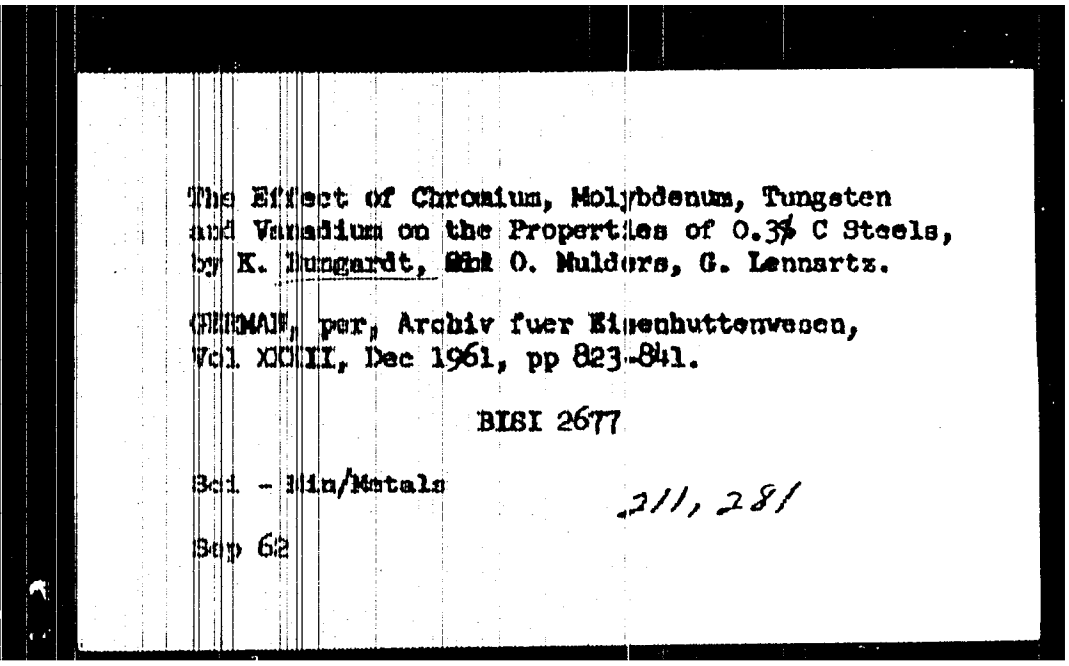


The Effect of Chromium, Molybdenum, Tungsten and Vanadium on the Properties of 0.3% C Steels, by K. Dungardt, [illegible] O. Mulders, G. Lennartz.

(FIRMA), per, Archiv fuer Eisenhuttenwesen, Vol. XXXII, Dec 1961, pp 823-841.

BISI 2677

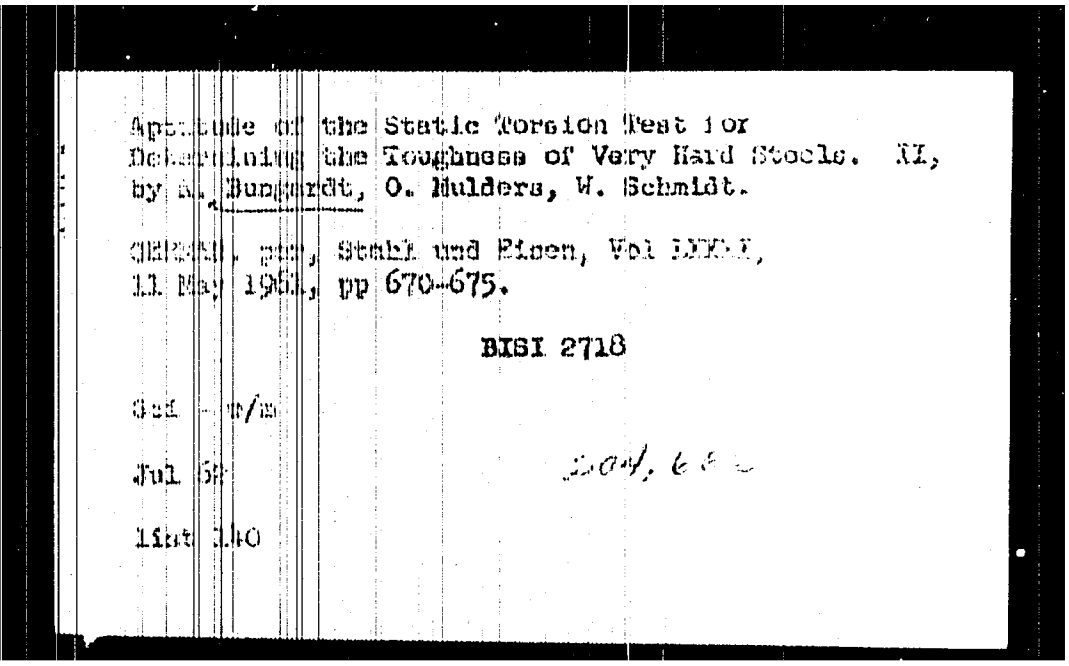
Bel. - Bln/Metals

Sep 62

211, 281

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5



Aptitude of the Static Torsion Test for Determining the Toughness of Very Hard Steels. XI, by A. Bungardt, O. Mulders, W. Schmidt.

Stahl und Eisen, Vol LXXXI, 11 May 1961, pp 670-675.

BISI 2718

Gal - m/m

Jul 63

Libt 3.40

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

Bungardt, K. and Preisendanz, H.
DAMPING CAPACITY AND MODULUS OF RIGIDITY OF ZIRCONIUM AND ZIRCONIUM-HYDROGEN ALLOYS. [1960] 16p.
Order from ATS $26.95 ATS-79M45G

Transl. of Z[eitschrift für] Metallkunde (West Germany) 1960, v. 51, no. 5, p. 280-289.

(Metallurgy--Nonferrous Metals, TT, v. 5, no. 5)

61-12398

1. Zirconium alloys--Mechanical properties
I. Bungardt, K.
II. Preisendanz, H.
III. ATS-79M45G
IV. Associated Technical Services, Ind., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

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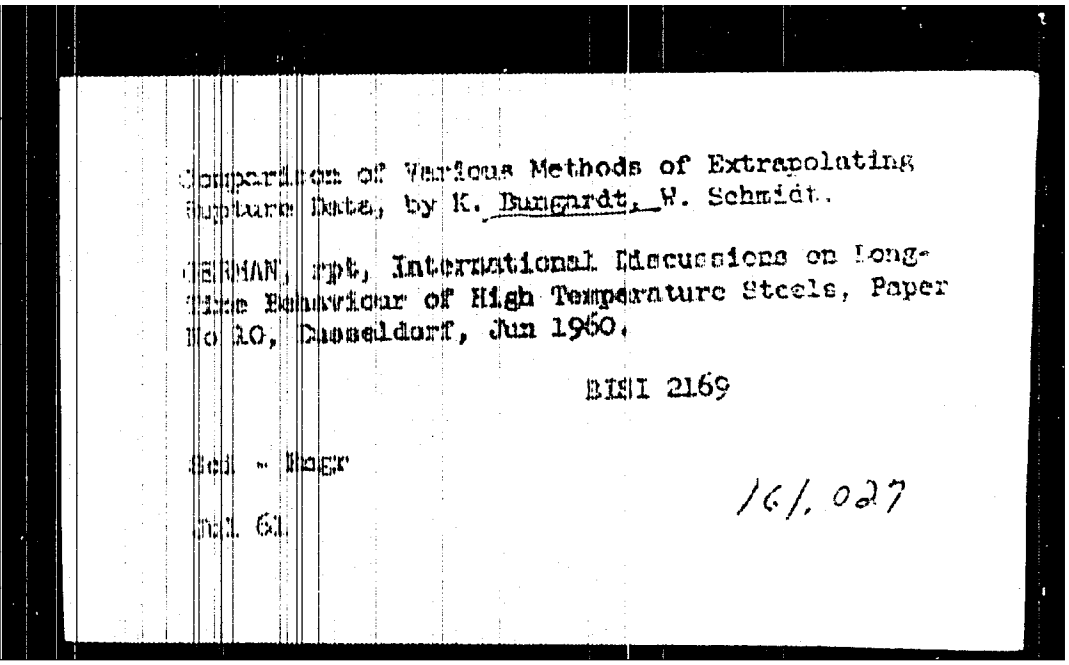

Comparison of Various Methods of Extrapolating Rupture Data, by K. Bungardt, W. Schmidt.

GERMAN, rpt, International Discussions on Long-Time Behaviour of High Temperature Steels, Paper No 10, Duesseldorf, Jun 1960.

BISI 2169

Ger - Engr

Incl. 61.

161,027

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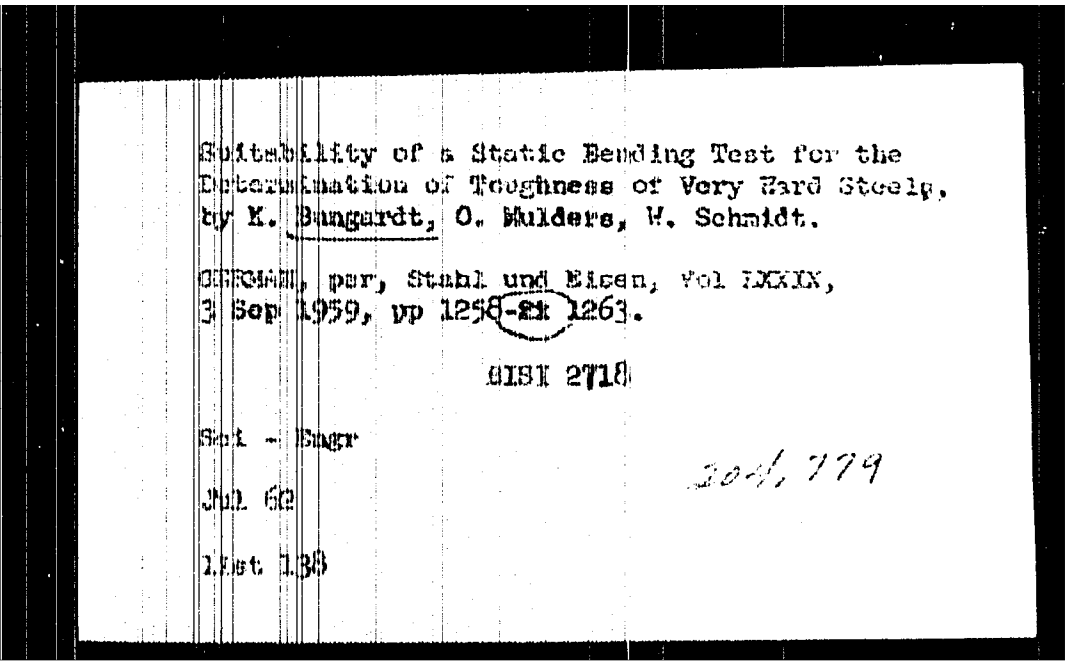
APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5



Suitability of a Static Bending Test for the Determination of Toughness of Very Hard Steels, by K. Bungardt, O. Mulders, W. Schmidt.

GERMAN, par, Stahl und Eisen, Vol LXXIX, 3 Sep 1959, pp 1258-[illegible] 1263.

BISI 2718

Sol - Engr

Jul 62

Lect 138

304,779

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

The Effect of the Degree of Stabilization on the Precipitation Processes in Austenitic Chromium-Nickel and Chromium-Nickel-Molybdenum Steels Containing Niobium, by K. Bungardt, et al.
UICK

GERMAN, per, Arch Eisenhuettenwesen, Jul 1959, pp 429-434.

BISI 2438

(14 10m.Cd.)

103,070

Sci - Min/Met
Dec 59

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

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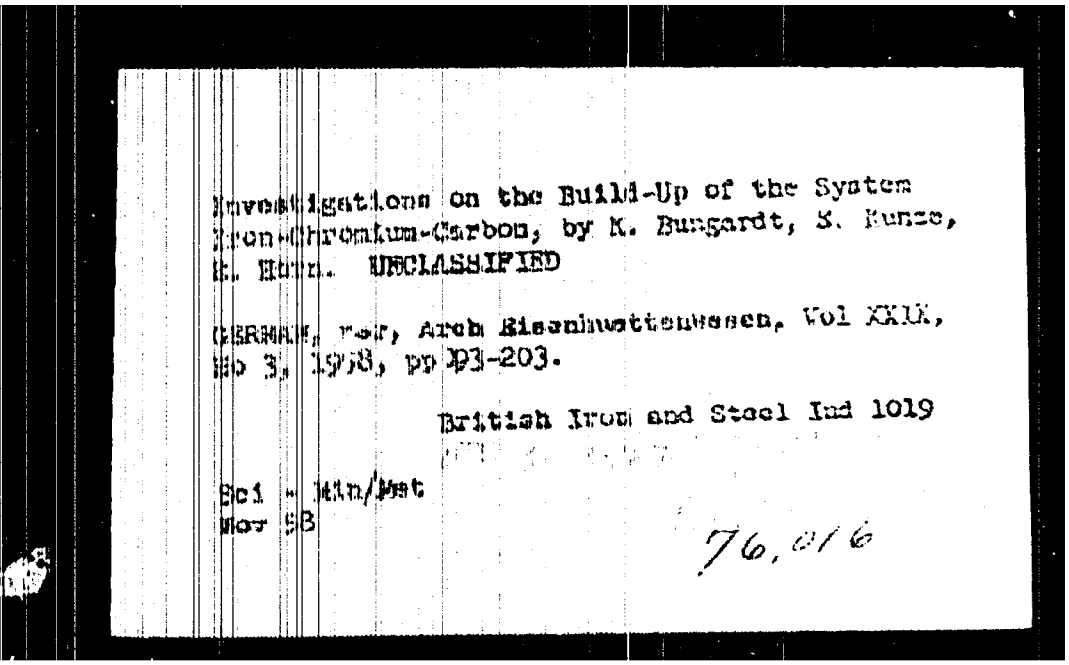

Investigations on the Build-Up of the System Iron-Chromium-Carbon, by K. Bungardt, E. Kunze, E. Horn. UNCLASSIFIED

GERMAN, rec'r, Arch Eisenhuttenwesen, Vol XXIX, No 3, 1958, pp 193-203.

British Iron and Steel Ind 1019

Sci - Min/Met
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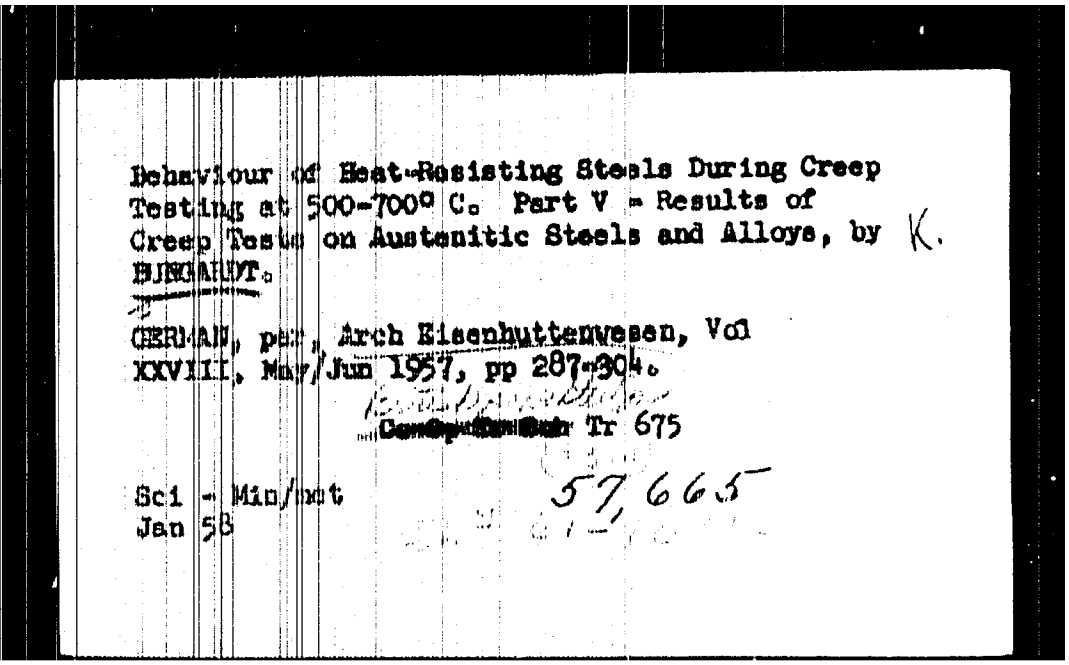
APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5



Behaviour of Heat-Resisting Steels During Creep Testing at 500-700° C. Part V - Results of Creep Tests on Austenitic Steels and Alloys, by K. BUNGARDT.

GERMAN, pub., Arch Eisenhuttenwesen, Vol XXVIII, May/Jun 1957, pp 287-304.

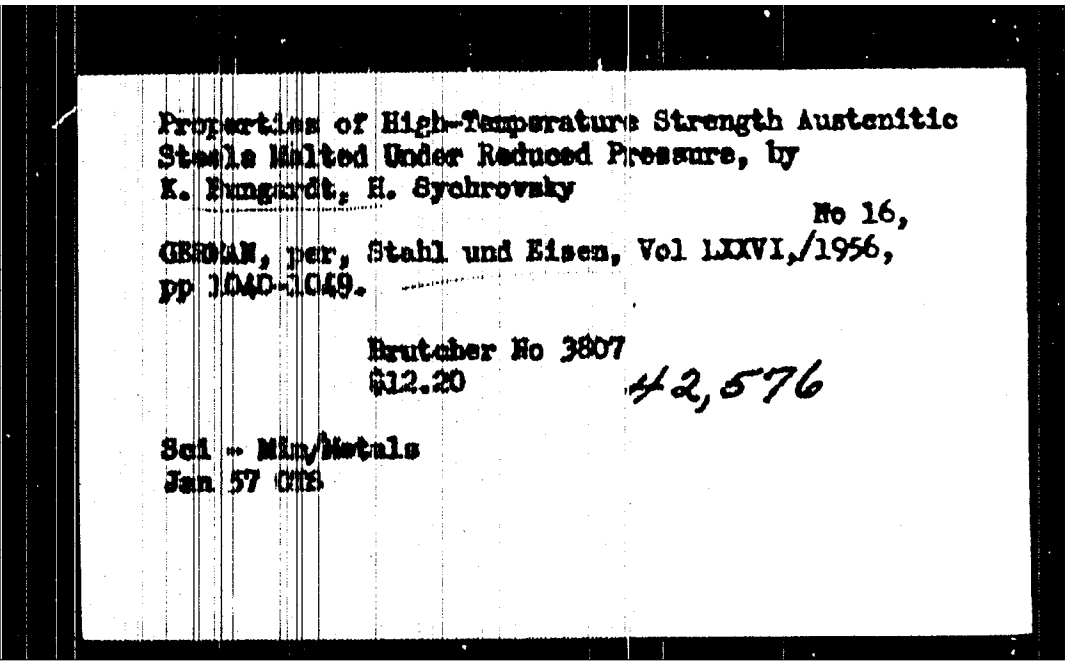
Tr 675

Sci - Min/met
Jan 58

57,665

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5



Properties of High-Temperature Strength Austenitic Steels Melted Under Reduced Pressure, by K. Pungardt, H. Sychrovsky

No 16,

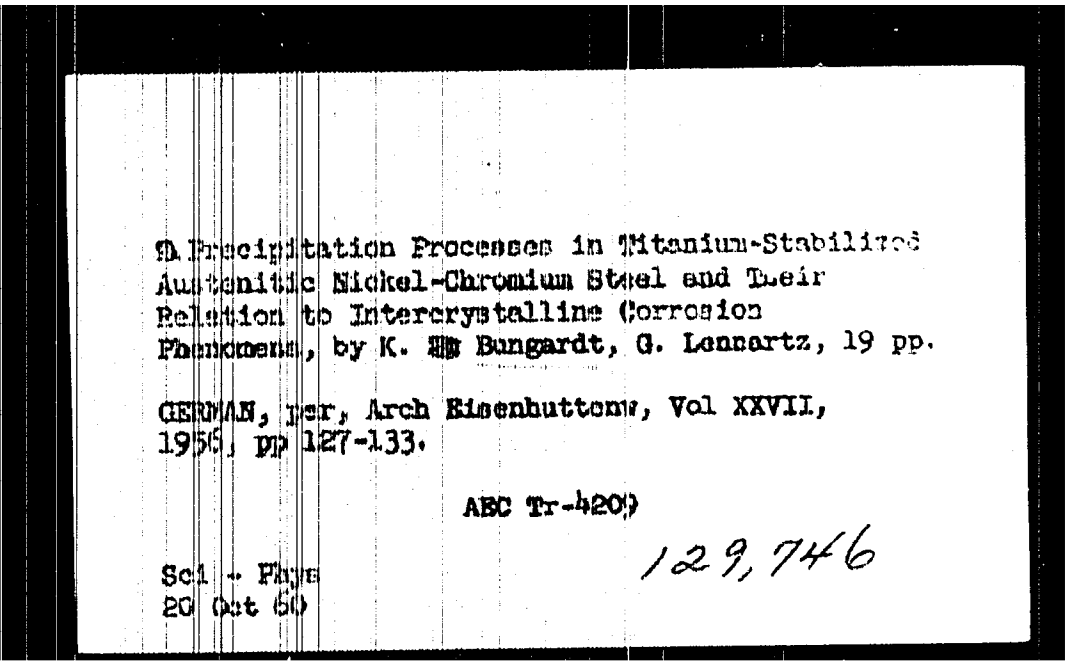
GERMAN, per, Stahl und Eisen, Vol LXXVI,/1956, pp 1040-1049.

Brutcher No 3807
$12.20 #2,576

Sci - Min/Metals
Jan 57 CHB

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5



"Precipitation Processes in Titanium-Stabilized Austenitic Nickel-Chromium Steel and Their Relation to Intercrystalline Corrosion Phenomena", by K. H. Bungardt, G. Lennartz, 19 pp.

GERMAN, per, Arch Eisenhuttenw, Vol XXVII, 1956, pp 127-133.

ABC Tr-420)

129,746

Sci - Phys
20 Oct 60

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

Determination of Hydrogen in Electric Steel,
by W. Geller, K. Burgardt, P. Hammerschid. UKCL

GERMAN, per. Arch Eisenhuettenwesen, Vol XXVII,
No 9, 1956, pp 235-240.

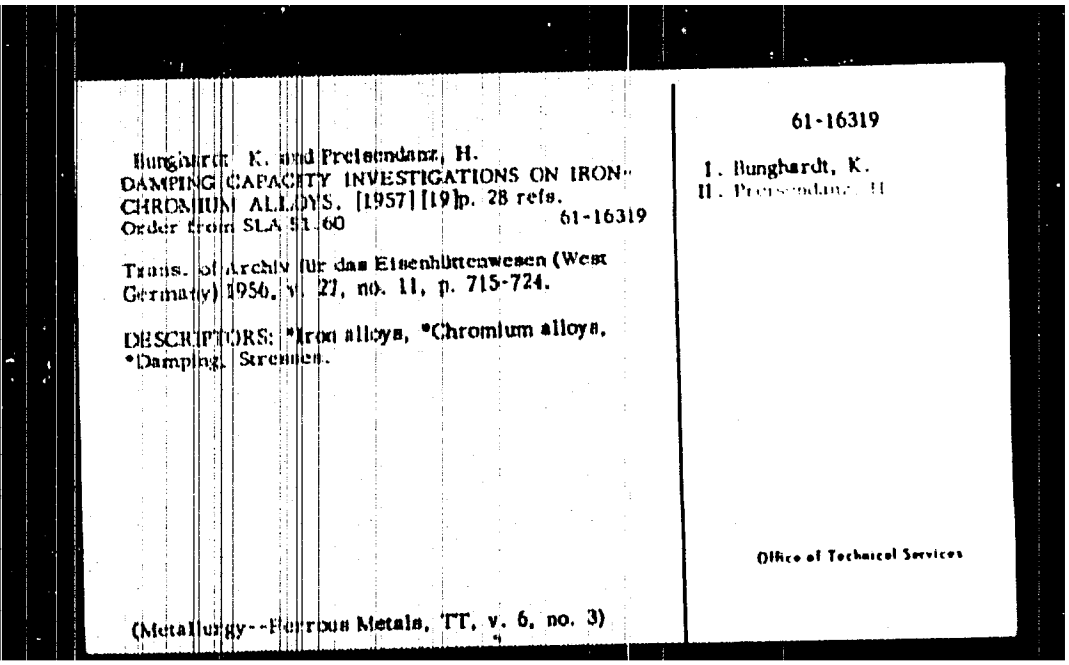
British Iron and Steel Ind
(no number given)

Sci - Chem
Sep 59

98,092

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5



Bunghardt, K. and Preisendanz, H.
DAMPING CAPACITY INVESTIGATIONS ON IRON-CHROMIUM ALLOYS. [1957] [19]p. 28 refs.
Order from SLA 61-60 61-16319

Trans. of Archiv für das Eisenhüttenwesen (West Germany) 1956, v. 27, no. 11, p. 715-724.

DESCRIPTORS: *Iron alloys, *Chromium alloys, *Damping, Stresses.

(Metallurgy--Ferrous Metals, TT, v. 6, no. 3)

61-16319

I. Bunghardt, K.
II. Preisendanz, H

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

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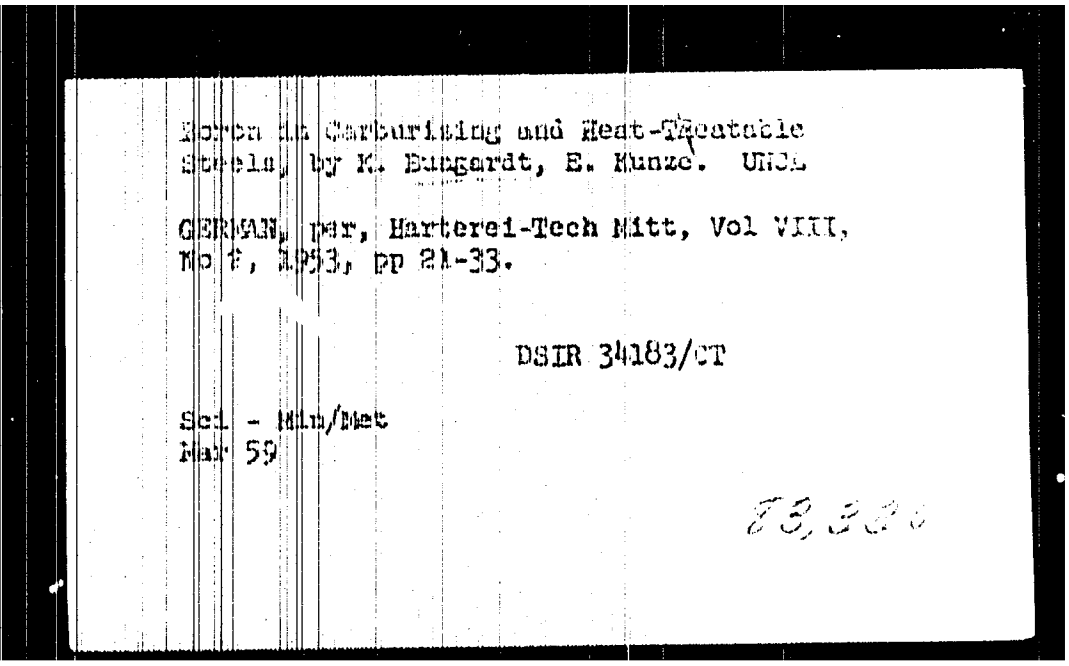

Boron in Carburizing and Heat-Treatable Steels, by K. Bungardt, E. Kunze. UNCL

GERMAN, per, Harterei-Tech Mitt, Vol VIII, No 1, 1953, pp 21-33.

DSIR 34183/CT

Sci - Min/Met
Mar 59

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

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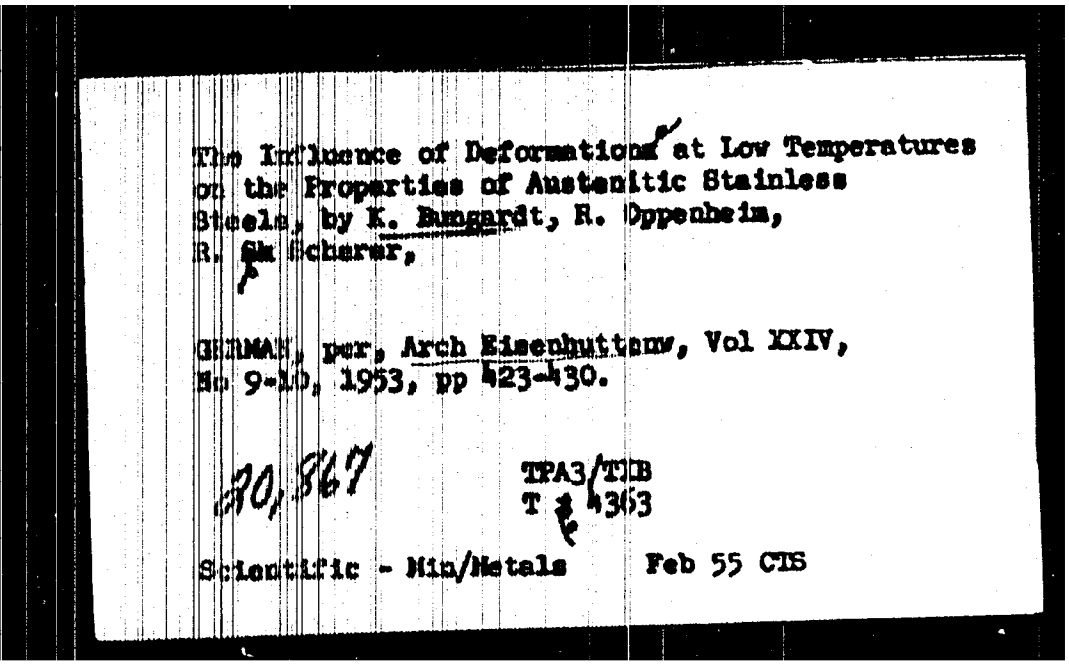

The Influence of Deformations at Low Temperatures on the Properties of Austenitic Stainless Steels, by K. Bungardt, R. Oppenheim, R. Schaarer,

GERMAN, per, Arch Eisenhuttenw, Vol XXIV, No 9-10, 1953, pp 423-430.

30,867

TPA3/TIB
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Scientific - Min/Metals Feb 55 CIS

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

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The Development of Heat-Resisting Steels With High Strength at Elevated Temperature, by K. Dungerdt.

GERMAN, Ber. Stahl und Eisen, Dusseldorf, Vol LXXIII, 1953, pp 1496-1503.

Iron and Steel Inst
483, OT/880

Scientific - Minerals/Metals
Aug 54 CIS

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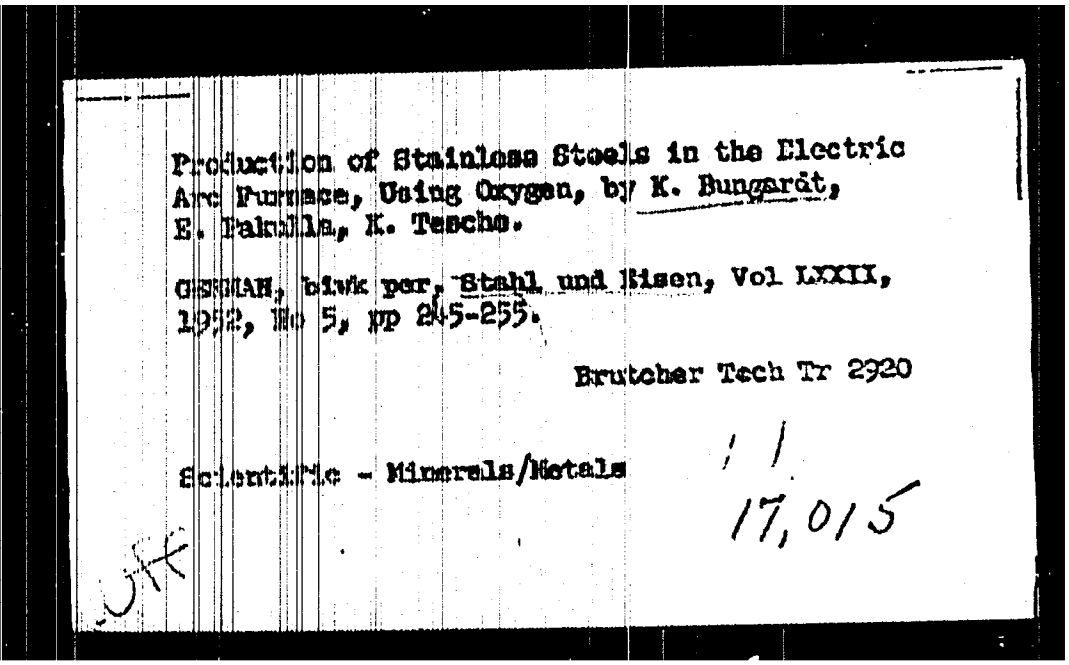

Production of Stainless Steels in the Electric Arc Furnace, Using Oxygen, by K. Bungardt, E. Paschke, K. Tescho.

GERMAN, bimk per, Stahl und Eisen, Vol LXXII, 1952, No 5, pp 245-255.

Brutcher Tech Tr 2920

Scientific - Minerals/Metals

17,015

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

Influence of Composition of Stainless Steels Upon Resistance to Sulfuric and Hydrochloric Acids, by K. Bungardt, H. J. Rocha.

(GERMAN, per, Werkstoffe und Korrosion, Vol III, No 5-6, 1952, pp 209-211.

Brutcher Trans No 2963

Scientific - Metallurgy, steel, metals, chemistry, sulfuric acid, hydrochloric acid

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

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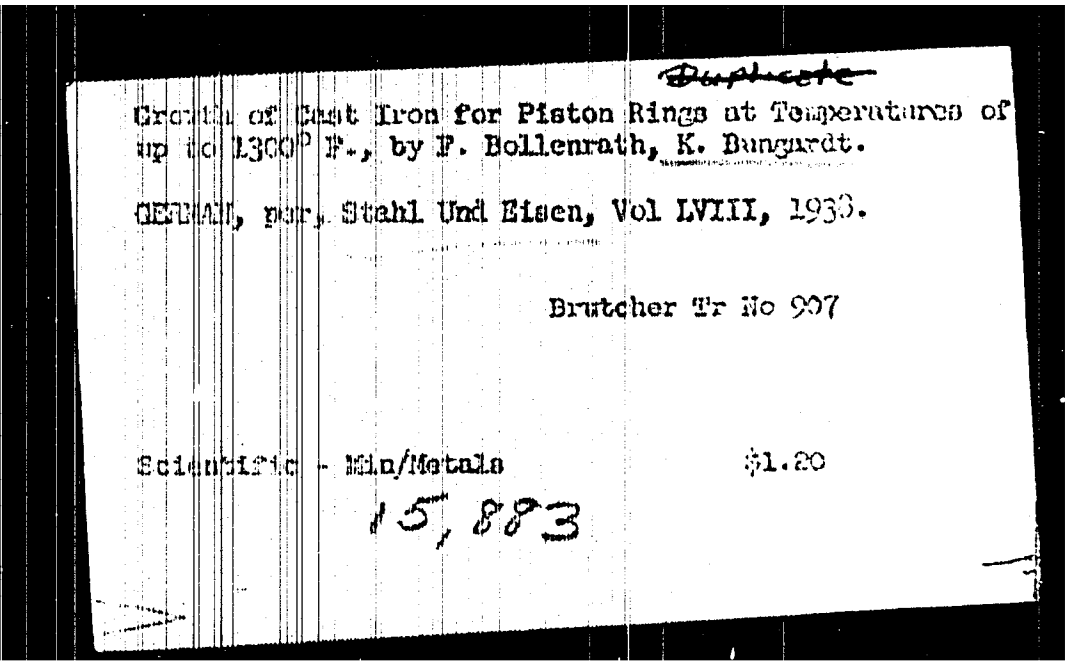

~~Duplicate~~

Growth of Cast Iron for Piston Rings at Temperatures of up to 1300° F., by F. Bollenrath, K. Bungardt.

GERMAN, per. Stahl Und Eisen, Vol LVIII, 1938.

Brutcher Tr No 997

Scientific - Min/Metals $1.20

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5

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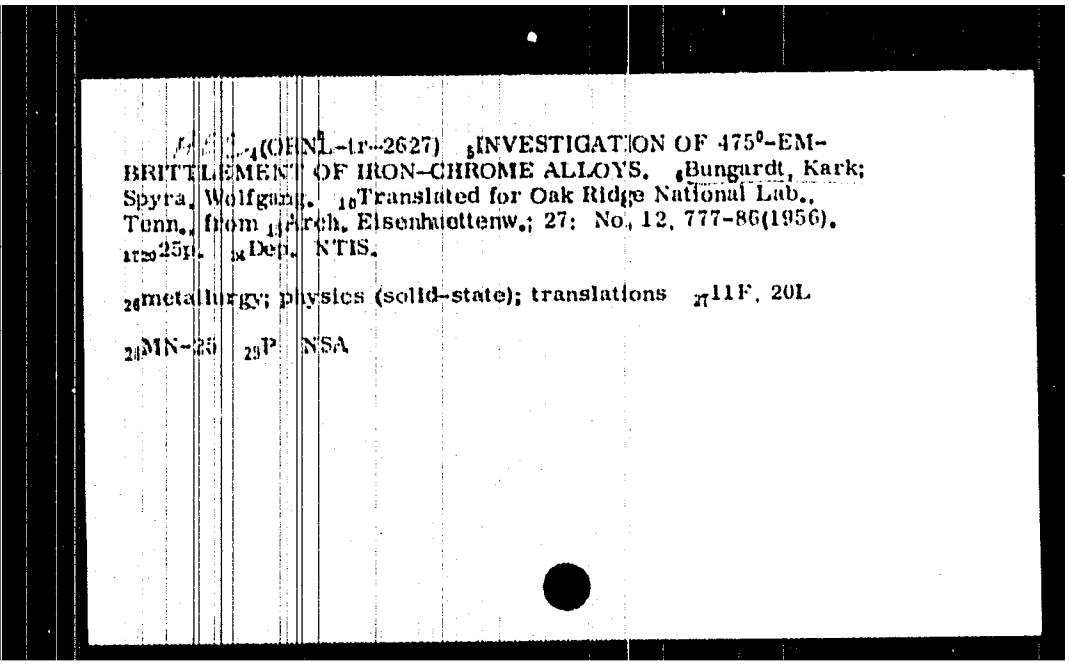

[illegible]4(ORNL-tr-2627) 5INVESTIGATION OF 475°-EMBRITTLEMENT OF IRON-CHROME ALLOYS. 6Bungardt, Kark; Spyra, Wolfgang. 10Translated for Oak Ridge National Lab., Tenn., from 11Arch. Eisenhuettenw.; 27: No. 12, 777-86(1956). 12p 25p. 14Dep. NTIS.

26metallurgy; physics (solid-state); translations 27 11F, 20L

28MN-25 29P NSA

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100690007-5